CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 75256 S2

DRAFT FINAL PRINTED LABELING

(desogestrel and ethinyl estradiol) Ta

PATIENTS SHOULD BE COUNSELED THAT THIS PRODUCT DOES M AGAINST HIV INFECTION (AIDS) AND OTHER SEXUALLY TRANSMITTE

R only

M.W: 296.41

DESCRIPTION

April 28 and 21 Day Regimen bitistar cards for desogestrel and ethinyl estradiol tablets provide an oral contraceptive regimen of 21 round rose-colored tablets. Each rose-colored "active" desogestrel and ethinyl estradiol tablet for oral administration contains 0.15 mg desogestrel (13-ethyl-11- methylene-18,19-dinor-17 alpha-pregna-4-en-20-yn-17-ol) and 0.03 mg ethinyl estradiol (19-nor-17 alpha-pregna-1.3.5 (10)-trien-20-yne-3.17-diol). (nactive ingredients include colloidel silicon dioxide, FD&C Bitle No. 2 Aluminum Lake, hydroxyropyl methylcel-fullose, lactose monohydrate, polyethylene glycol, polysorbate 80, povidone, pregeta-tinized starch, strant active individual endosde, and vitamin E.

And 28 Day Regimen bister cards also contain 1 white inactive tablets for oral admin-istration, containing the following inactive ingredients: lactures arrhydrous, magnesium stearate, microcrystaffine cellulose and pregelatinized starch.

DEROGERTREE ETHINYL PRITRADIOS

 $C_{20}H_{24}O_{2}$

CLINICAL PHARMACOLOGY

M.W.: 310.48

C₂₂H₃₀O

Pharmacochystenies:

Combination oral contraceptives act by suppression of gonadotropins. Although the primary mechanism of this action is inhibition of ovuiation, other alterations include changes in the cervical mucus, which increase the difficulty of sperm entry into the uterus, and changes in the endometrium which reduce the likelihood of implantation. Receptor binding studies, as well as studies in animals and humans, have shown that 3-keto-desogestral, the biologically active metabolitis of desogestral, combines high progestational activity with minimal intrinsic androgenicity (91,92). Desogestral, in combination with othinyl estradiol, does not counteract the estrogen-induced increase in SHBG, resulting in lower serum levels of free testosterone (96-99).

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approximately 84%. In the third cycle of use after a single desogestrel and ethinyl estractiol tablet, maximum concentrations of 3-keto-desogestrel of 2,805 ± 1,203 pg/mL (means.SD) are reached at 1.40.8 hours. The area under the curve (AUC₀₋₁) is 33,858±11,043 pg/mL • hr after a single dose. At steady state, attained from at least day 19 orwards, maximum concentrations of 5,840±1,667 pg/mL are reached at 1.40.9 hours. The minimum plasma levels of 3-keto-desogestrel at steady state are 1.400±560 pg/mL. The AUC₀₋₂ at steady state are 5.400±560 pg/mL. The AUC₀₋₂ at steady state is 52,299±17,878 pg/mL • hr. The mean AUC₀₋₂ for 3-keto-desogestrel at single dose is significantly lower than the mean AUC₀₋₂ at steady state. This indicates that the kinetics of 3-keto-desogestrel are non-linear due to an increase in binding of 3-keto-desogestrel to sex hormone-binding globulin levels which are induced by the daily administration of athinyl estractiol. Sex hormone-binding globulin levels which are induced by the daily administration of athinyl estraction. Sex hormone-binding globulin levels increased significantly in the third treatment cycle from day 1 (150±64 mol/L) to day 21 (230±59 mol/L).
The elimination half-life for 3-keto-desogestrel is approximately 38±20 hours at steady state. In addition to 3-keto-desogestrel, These other metabolites are so-OH-5o-H-5o-Gesogestrel.

state. In addition to 3-kesto-desogestrel, other phase I metabolites are 3-c/0H-desogestrel, 39-OH-desogestrel, and 3c-OH-5-c-H-desogestrel. These other metabolites are of lower to know to have any pharmacologic effects, and are further converted in part by conjugation (phase II metabolism) into potar metabolites, mainly suitates and gucuronides. Ethinyl estradiol is rapidly and almost completely absorbed. In the third cycle of use after a single desogestrel and ethinyl estradiol tablet, the relative bioavaitability is approximately 83%. In the third cycle of use after a single desogestrel and ethinyl estradiol tablet, maximum concentrations of ethinyl estradiol of 96-34 pg/ml. are reached at 1.5±0.8 hours. The AUCo₋₋₋ is 1.471±268 pg/ml. h r after a single dose. At steady state, attained from at least day 19 onwards, maximum ethinyl estradiol concentrations of 141±48 pg/ml. are reached at about 1.4±0.7 hours. The minimum sorum levels of ethinyl estradiol at steady state are 24±8.3 pg/ml. The AUCo₋₋₋₋ at steady state is 1.117±302 pg/ml. h r. The mean AUCo₋₋₋₋ for ethinyl estradiol following a single dose during treatment cycle 3 does not significantly differ from the mean AUCo₋₋₋₋ at steady state. This finding indicates linear kinetics for ethinyl estradiol following a single dose during treatment cycle 3 does not significantly differ from the mean AUCo₋₋₋₋ at steady state. This finding indicates linear kinetics for ethinyl estradiol following a single dose of presystemic conjugation (phase II metabolism). Ethinyl estradiol escaphicantly differ from the mean AUCo₋₋₋ at steady state.

The elimination half-the is 25±8.8 in hours at seaso years, timmly estration is surject to a so-inficant degree of presystemic conjugation (phase II metabolism). Ethiny estratiol escap-ing gut wall conjugation undergoes phase I metabolism and hepatic conjugation (phase II metabolism). Major phase I metabolities are 2-OH-enhiny estratiol and 2-methoxy-ethinyl estratiol. Sulfate and glucuroride conjugates of both ethinyl estratiol and phase I metabo-lities, which are excreted in bite, can undergo enterchepatic circulation.

INDICATIONS AND USAGE

April (desogestrel and ethinyl estradiol) Tablets are indicated for the prevention of preg-nancy in women who elect to use oral contraceptives as a method of contraception. Oral contraceptives are highly effective. Table I lists the typical accidental pregnancy rates for users of combination onal contraceptives and other methods of contraception. The efficacy of these contraceptive methods, except startization, depends upon the reli-ability with which they are used. Correct and consistent use of these methods can result in locate faithm presse. in lower failure rates.

TABLE I: LOWEST EXPECTED AND TYPICAL FABLURE RATES DURING THE FIRST YEAR OF CONTINUOUS USE OF A METHOD % of Women Experiencing on Accidental Programcy in the First Year of Continuous Use

Method	Lowest Expected*	Typical**
(No Contraceptive)	(85)	(85)
Oral Contraceptives	(/	3
combined	0.1	ŇA***
progestin only	0.5	NA***
Diaphragm with spermicidal		
cream or jetly	` 6	18
Spermicides alone (foams,	•	
creams, gets, jetties, vaginal		
suppositories, and vaginal film)	6	21
Vaginal Sponge	•	• '
nulliparous.	9	18
parous	20	38
implant	0.09	0.09
Injection: depot	0.00	0.03
medroxyprogesterone acetata	0.3	0.3
IUD	0.0	0.5
progesterone	1.5	2.0
copper T 380A	0.6	0.8
Condom without spermicides	0.0	0.0
famale	4	21
male	5 3	12
Cervical Cap with spermicidal	•	
cream or jelly		
nutiliparous	9	18
parous	26	36
Periodic abstinence	20	. 30
(all methods)	1-91	20
Female sterifization	0.4	0.4
	0.10	
Male sterilization	0.10	0.15

Adapted from RA Hatcher et al., Table 5-2.(1994) ref. #1.

- * The authors' best guess of the percentage of women expected to experience an accidental pregnancy among couples who initiate a method (not necessarily for the first time) and who use it consistently and correctly during the first year if they do not stop for any other reason.
- "This term represents "typical" couples who initiate use of a method (not necessarily for the first time), who experience an accidental pregnancy during the first year if they do not stop use for any other reason.
- *** N/A -- Data not available.

In a clinical trial with desogestral and ethinyl estradiol tablets, 1,195 subjects completed 11,656 cycles and a total of 10 pregnancies were reported. This represents an over-all user-efficacy (typical user-efficacy) pregnancy rate of 1.12 per 100 women-years. This rate includes patients who did not take the drug correctly.

CONTRAINDICATIONS

Oral contraceptives like Apri tablets should not be used in women who currently have the following conditions:

- 1 following conditions:

 Thrombophtebitis or thromboembolic disorders

 A past history of deep vein thrombophtebitis or thromboembolic disorders

 Cerebral vascular or conomary artery disease

 Known or suspected carcinoma of the breast

 Carcinoma of the endomatrium or other known or suspected estrogen-dependent
- Undiagnosed abnormal genital bleeding
 Undiagnosed abnormal genital bleeding
 Cholestatic jumilies of pregnancy or jaundice with prior pit use
 Hepatia adenomals or carcinomas
 Known or suspected pregnancy

WARMINGS

Cigarette anothing increases the risk of serious cardiovascular side effects from oral contraceptive see. This risk increases with age and with heavy anothing (15 or more cigarettes per day) and is quite marked in women over 35 years of age. Women who use oral contraceptives should be strongly advised not be smaller.

The use of oral contraceptives is associated with increased risks of several serious conditions including impocardial intention, thromboembolism, stroke hepatic neoplasia and galibladder disease, although the risk of serious morbidity or mortality is very small in healthy women without underlying risk factors. The risk of morbidity and mortality increases significantly in the presence of other underlying risk factors such as hypertension, hyperlipidemias, obesity and diabetes.

Practitioners prescribing oral contraceptives should be familiar with the following information relating to these risks.

The information contained in this package insert is principally based on studies carried out in patients who used oral contraceptives with formulations of higher doses of estrogens and progestogens than those in common use today. The effect of long term use of the oral contraceptives with formulations of lower doses of both estrogens and progestogens remains to be determined.

Throughout this labeling, epidemiological studies reported are of two types: retrospec-The use of oral contraceotives is associated with increased risks of several serious con-

Projections reliable to the desirement of the first project of the types: retrospective or case control studies and prospective or cohort studies. Case control studies provide a measure of the relative risk of a disease, namely, a ratio of the incidence of a disease. vide a measure of the relative risk of a classes, lariety, a ratio of the include of a classes among oral contraceptive users to that among nonusers. The relative risk does not provide information on the actual clinical occurrence of a disease. Cohort studies provide a measure of attributable risk, which is the difference in the incidence of disease between oral contraceptive users and nonusers. The attributable risk does provide information about the actual occurrence of a disease in the population (Adapted from

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Mid. by: DURAMED CINCINNAT



efs. 2 and 3 with the author's permission). For further information, the reader is

red to a text on epidemiological methods. THROMBOEMBOLIC DISORDERS AND OTHER VASCULAR PROBLEMS

a. Myocardial inference

iblets

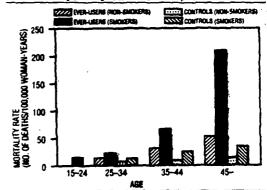
IOT PROTECT ED DISEASES.

An increased risk of myocardial infarction has been attributed to oral contra-ceptive use. This risk is primarily in smokers or women with other underlying risk factors for coronary artery disease such as hypertension, hypercholes-terotemia, morbid obesity, and dispetes. The relative risk of heart attack for cur-rent oral contraceptive users has been estimated to be two to six (4-10). The

risk is very low in woman under the age of 30.

Smoking in combination with one contraceptive use ites been shown to contribute substantially to the incidence of myocardal infanctions in women in their mid-thirdes or older with smoking accounting for the majority of excess cases (11). Mortality rates associated with circulatory disease have been shown to increase substantially in smokers, especially in those 35 years of age and older among women who use oral contraceptives. (See Table II)

TABLE II: Circulatory disease martelly rates per 100,000 wetsen-years by ago, smalling status and area contraceptive use



(Adapted from P.M. Layde and V. Beral, ref. #12.)

Oral contraceptives may compound the effects of well-known risk factors, such as hypertension, diabetes, hypertensies, age and obesity (13). In particular, some progestogens are known to decrease HDL cholesterol and cause glucose intolerance, white estrogens may create a state of hyperinsularism (14-18). Oral contraceptives have been shown to increase blood pressure among users (see section 9 in Warmings). Similar reflects on risk tactors have been associated with an increased risk of heart disease. Oral contraceptives must be used

ated with an inforessed risk of near character. Or at contractprise must be used with caution in women with cartiforascular disease risk factors. Desogestrel has minimal androgenic activity (See CLINICAL PHARMACOLOGY), and there is some evidence that the risk of myocardial infarction associated with oral contraceptives is flower when the progestopen has minimal androgenic activity than when the activity is greater (100).

b. Thromboembolism

b. Thromboembotism
An increased risk of thromboembotic and thrombotic disease associated with
the use of one contraceptives is well established. Data from case-comrol and
cohort studies report that onal contraceptives containing desogestrel (Apri
(desogestrel and ethinyl estradiol) Tablets contain desogestrel are established of with a two-fold increase in the risk of venous thromboembotic disease as
compared to other low-dose (containing less than 50 mcg of estrogen) pills
containing other progestins. According to these studies, this two-fold risk
increases the yearly occurrence of venous thromboembotic disease by about
10-15 cases per 100,000 women.
Earlier case control studies on older formulations have found the relative risk
of users compared to nonusers to be 3 for the first episode of superficial
venous thrombosis, 4 to 11 for deep vein thromboeis or pulmonary embotism,
and 1.5 to 6 for women with predisposing conditions for venous thromboembotic disease (2.3, 19-24). Cohort studies have shown the relative risk to be
somewhat lower, about 3 for new cases and about 4.5 for new cases requiring
nospitalization (25). The risk of thromboembolic disease associated with oral
contraceptives is not related to length of use and disappears after pill use is
stopped (2).

contraceptives is not reason to length of use and disappears after pill use is stopped (2). A two- to four-fold increase in relative risk of post-operative thromboembolic complications has been reported with the use of oral contraceptives (9). The relative risk of venous thrombosis in women who have predisposing condi-tions is twice that of women without such medical conditions (26). If feasible, oral contraceptives should be discontinued at least four weeks prior to and for

two weeks after elective surgery of a type associated with an increase in risk of thromboembolism and during and following prolonged immobilization. Since the immediate postpartum period is also associated with an increased risk of thromboembolism, crat contraceptives should be started no earlier than four weeks after delivery in women who elect not to breast feed.

weeks after delivery in women who elect not to breast feed.

c. Cerebrovascular diseases
Oral contraceptives have been shown to increase both the relative and attributable risks of cerebrovascular events (thrombotic and hemorrhagic strokes), atthough, in general, the risk is greatest among older (> 35 years), hypertensive women who also smoke. Hypertension was found to be a risk factor for both users and nonusers, for both types of strokes, and smoking interacted to increase the risk of strokes (27-29).

In a large study, the relative risk of thrombotic strokes has been shown to range from 3 for normotensive users to 14 for users with severe hypertension (30). The relative risk of hemorrhagic stroke is reported to be 1.2 for normotensive users and contraceptives, 2.6 for smokers who due on not use on all contraceptives, 7.6 for smokers who used oral contraceptives, 1.8 for normotensive users and 25.7 for users with severe hypertension (30). The attributable risk is also greater in older women (3).

urable risk is also greathr in older women (3).

d. Dosi-rolated risk of vascular disease from onst contraceptives. A positive association has been observed between the amount of estrogen and progestogen in onat contraceptives and the risk of vascular disease (31-33). A decline in serum high density tipoproteins (HOL) has been reported with many progestational agents (14-16). A decline in serum high density tipoproteins has been associated with an increased incidence of ischemic heart disease. Secause estrogens increase HDL cholesterol, the net effect of an oral contraceptive depends on a bitaince achieved between doses of estrogen and progestogen and the nature and absolute amount of progestogens used in the contraceptives. The amount of both hormones should be considered in the choice of an oral contraceptive.

contraceptives. The amount of both hormones should be considered in the choice of an oral contraceptive.

Minimizing exposure to estrogen and progestogen is in keeping with good principles of therapeutics. For any particular estrogen/progestogen combination, the dosage regimen prescribed should be one which contains the least amount of estrogen and progestogen that is compatible with a low failure rate and the needs of the individual patient. New acceptons of oral contraceptive agents should be started on preparatione containing 0.035 mg or less of estrogen.

 Persistence of risk of vascular disease
 There are two studies which have shown persistence of risk of vascular dis There are two studies which have shown persistence of risk of vascular disease for ever-users of oral contraceptives. In a study in the United States, the risk of developing myocardial infarction after discontinuing oral contraceptives persists for at least 9 years for woman 40-49 years old who had used oral contraceptives for five or more years, but this increased risk was not demonstrated in other age groups (8). In another study in Great Britain, the risk of developing cerebrovascular disease presisted for at least 6 years after discontinuation of oral contraceptives, although excess risk was very small (34). However, both studies were performed with oral contraceptive formulations containing 0.050 mg or higher of estrogens.

ESTIMATES OF MORTALITY FROM CONTRACEPTIVE USE

One study gathered data from a variety of sources which have estimated the mor-tality rate associated with different methods of contraception at different ages (Table III). These estimates include the combined risk of death associated with (Table III). These estimates include the combined risk of death associated with contraceptive methods plus the risk attributable to pregnancy in the event of method failure. Each method of contraception has its specific benefits and risks. The study concluded that with the exception of oral contraceptive users 35 and older who smoke and 40 and older who do not smoke, mortality associated with all methods of birth control is low and below that associated with civilibirith. The observation of an increase in risk of mortality with age for oral contraceptive users is based on data gathered in the 1970's (35). Current clinical recommendation involves the use of inwest extremen dose formulations and a careful.

mendation involves the use of lower estrogen dose formulations and a careful consideration of risk factors. In 1989, the Fertility and Maternal Health Orugs consideration of risk factors. In 1989, the Fertility and Maternal Health Drugs Advisory Committies was asked to review the use of oral contraceptives in women 40 years of age and over. The Committies concluded that although car-diovascular disease risk may be increased with oral contraceptive use after age 40 in healthy non-smoking women (even with the newer low-dose formula-tions), there are also greater potential health risks associated with pregnancy in older women and with the alternative surgical and medical procedures which may be necessary if such women do not have access to effective and acceptable means of contraception. The Committee recommended that the benefits of lowdose oral contraceptive use by healthy non-smolding women over 40 may out-weigh the possible risks.

Of course, other women, as all women who take oral contraceptives, should take an oral contraceptive which contains the least amount of extrogen and progesto-gen that is compatible with a low failure rate and individual patient needs. [See

TABLE III: ANNULAL MUNIBER OF SWITH-RELATED OR METHOD-RELATED DEATHS ASSOCIATED WITH CONTROL OF FERTILITY PER 100,000 NON-STERILE WOMEN, BY FERTILITY CONTROL METHOD ACCORDING TO AGE

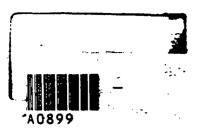
Method of control and outcome	15-19	28-24	25-23	39-34	35-20	40-44
No fertility control methods*	7.0	7.4	9.1	14.8	25.7	28.2
Oral contraceptives non-smoker**	0.3	0.5	0.9	1.9	13.8	31.6
Oral contraceptives smoker**	2.2	3.4	6.6	13.5	51.1	117.2
IUD**	0.8	0.8	1.0	1.0	1.4	1.4
Condom*	1.1	1.6	0.7	0.2	0.3	0.4
Diaphragm/spermicide*	1.9	1.2	1.2	1.3	2.2	2.8
Periodic abstinence*	2.5	1.6	1.6	1.7	2.9	3.6

- * Deaths are birth related ** Deaths are method related

(Adapted from H.W. Ory, ref. #35.)

CARCINOMA OF THE REPRODUCTIVE ORGANS AND BREASTS

Numerous epidemiological studies have been performed on the incidence of breast, endometrial, ovarian and cervical cancer in women using oral contraceptives. While there are conflicting reports most studies suggest that the use of oral contraceptives is not associated with an overall increase in the risk of developing breast cancer. Some studies have reported an increased relative risk of developing breast cancer, particularly at a younger age. This increased relative risk appears to be related to duration of use (36-43, 79-89).



PHARMACEUTICALS, INC. 1. OHIO 45213 USA

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Some studies suggest that oral contraceptive use has been associated with an increase in the risk of cervical intraepithetical neoplasies in some populations of women (45–49). However, there continues to be controversy about the extent to which such findings may be due to differences in sexual betterior and other fac-

HEPATIC NEOPLASIA

Benign hepatic adenomas are associated with oral contraceptive use, although
the incidence of benign tumors is rare in the United States. Indirect calculations
have estimated the attributable risk to be in the range of 3.3 cases/100,000 for
users, a risk that increases after four or more years of use especially with oral
contraceptives of higher dose (49). Rupture of rare, benign, hepatic adenoms
may cause death through intra-abdominal hemorrhage (50.51).

Studies from Britain have shown an increased risk of developing hepaticehular
carcinoma (52.54) in long-term (-8) years) oral contraceptive users. However,
these cancers are rare in the U.S. and the attributable risk (the excess incidence)
of liver cancers in oral contraceptive users approaches less than one per million
tisers.

OCULAR LESIONS

There have been clinical case reports of retinal thrombosis associated with the use of oral contraceptives. Oral contraceptives should be discontinued if there is unexplained partial or complete loss of vision; onset of proptosis or diploplar, papilledema; or retinal vascular lesions. Appropriate diagnostic and therapeutic measures should be undertaken immediately, ORAL CONTRACEPTIVE USE BEFORE OR DURING EARLY PREGNANCY

ORAL CONTRACEPTIVE USE BEFORE OR DURING EARLY PREGNANCY Extensive epidemiological studies have revealed no increased risk of birth defects in women who have used or all contraceptives prior to pregnancy (56-57). The majority of recent studies also do not indicate a teratogenic effect, particularly in so far as cardiac anomalies and limb reduction defects are concerned (55, 56, 58, 59), when oral contraceptives are taken inadvertently during early pregnancy. The administration of oral contraceptives to induce withdrawed bleeding should not be used as a test for pregnancy. Oral contraceptives should not be used during pregnancy to treat threatened or habitual abortion.

It is recommended that for any patient who has missed two consecutive periods, pregnancy should be ruled out before continuing oral contraceptive use. It the patient has not adhered to the prescribed schedule, the possibility of pregnancy should be considered at the time of the first insisted period. Oral contraceptive use should be discontinued unit pregnancy is nuised outer.

should be discontinued until pregnancy is ruled out

should be consistered at the time or the line massed period, one continued and should be discontinued until pregnancy is ruled out:

GALLBLADDER DISEASE
Earlier studies have reported an increased Bledme religitive risk of galibladder surgery in users of crail contraceptives and estrogens (60,61). More recent studies, however, have shown that the relative risk of developing galibladder diseases among oral contraceptive users may be minimal (62-64). The recent findings of minimal six may be restand to the use of one contraceptive formulations containing lower hormonal doses of estrogens and progestogens.

CARBOHYDRATE AND LIPIO METABOLIC EFFECTS
OTES contraceptive have been shown to cause a decrease in glucose tolerance in a significant percentage of users (17). This effect has been shown to be directly related to estrogenadose (65). In general, projectogens increase insulin secretion and create insulin resistance, this effect varying with different progestational agents (17,66). In the nondiabetic woman, oral contraceptives appear to have no effect on fasting blood glucose (67). Because of these demonstrated effects, pre-diabetic and diabetic women should be carefully monitored while taking oral contraceptives.

Oa.copyress.

A small proportion of women will have persistent hypertriglyceridemia while on the gill. As discussed earlier (see WARRINGS 1.a. and 1.d.), changes in serum triglycerides and lipoprotein levels have been reported in oral contraceptive users. ELEVATED 8LOOD PRESSURE

ELEVATED BLOOD PRESSURE
An increase in blood pressure has been reported in women taking oral contraceptives (68) and this increase is more thely in older oral contraceptive users (69)
and with extended duration of use (61).
Data from the Royal College of General Practitioners (12) and subsequent randomized triats have shown that the incidence of hypertension increases with

domized trials have shown that the incidence of hypertension increases with increasing progestational activity. Women with a history of hypertension or hypertension-related diseases, or renal disease (70) should be encouraged to use another method of contraception. If women elect to use oral contraceptives, they should be monitored closely and it significant elevation of blood pressure occurs, oral contraceptive should be dis-continued. For most women, elevated blood pressure will return to normal after stopping oral contraceptives (69), and there is no difference in the occurrence of hypertension among former and never users (68,70,71).

HEADACHE

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BLEEDING INREGULARITIES breakthrough bleeding and spotting are sometimes encountered in patients on oral contraceptives, especially during the first three months of use. Northormonal causes should be considered and adequate diagnostic measures taken to rule out malignancy or pregnancy in the event of breakthrough bleeding, as in the case of any abnormal vaginal bleeding. If pathology has been excluded, time or a change to another formulation may solve the problem. In the event of amenorrhea, preg-

Some women thay encounter post-pill amenorthes or oligomenorthes, especially when such a condition was pre-existent.

ECTOPIC PREGNANCY

12

Ectopic as well as intrauterine pregnancy may occur in contraceptive failures.

PRECAUTIONS

PHYSICAL EXAMINATION AND FOLLOW UP

PHYSICAL EXAMINATION AND FOLLOW UP It is good medical practice for all women to have annual history and physical examinations, including women using oral contraceptives. The physical examina-tion, however, may be determed until after initiation of oral contraceptives if requested by the woman and judged appropriate by the clinician. The physical examination should include special reference to blood pressure, breasts, abdomen and pelvic organs, including pervical cytology, and relevant laboratory tests. In case of undiagnosed, persistent or recurrent abnormal vaginal bleeding, appropriate measures should be conducted to rule out malignancy. Women with a strong family history of breast cancer or who have breast nocluses should be monitored with particular case. monitored with particular care.

LIPID DISORDERS

Wromen who are being treated for hypertipidemias should be followed closely if they elect to use oral contraceptives. Some progestogens may elevate LDL levels and may render the control of hyperlipidemias more difficult.

LIVER FUNCTION

If joundice develops in any woman receiving such drugs, the medication should be discontinued. Steroid hormones may be poorly metabolized in patients with impaired liver function.

FLUID RETENTION

Oral contractives may cause some degree of fluid retention; They should be prescribed with caution, and only with careful monitoring, in patients with condi-tions which might be appreciated by fluid retention. EMOTIONAL DISORDERS

Women with a history of depression should be carefully observed and the drug-discontinued if depression recurs to a serious degree.

CONTACT LENSES

CONTACT LENSES
Contact lens wearers who develop visual changes or changes in lens tolerance should be assessed by an ophthalmologist.

DRUG INTERACTIONS
Reduced efficacy and increased incidence of breakthrough bleeding and menstrual irregularities have been associated with concomitant use of rifampin. A similar association, though less marked, has been suggested with barbiturates, phenylbutazone, phenylbutazone, phenylbutazone, prenylbutazone, prenylbutazone

ed by oral contraceptives:
a. Increased protityombin and factors VII, VIII, IX and X; decreased antithrombin

a. Increased prominion and racours VV, VVI, IX and X, declared aroundonlind 3; increased norepinephrine-induced platiest aggregability.
b. Increased thyroid binding globulin (TBG) leading to increased circulating total thyroid hormone, as measured by protein-bound indine (PBI), T4 by column or by radioimmunoassay, Free T3 resin uptate is decreased, reflecting the ele-vated TBG; free T4 concentration is unaltered.

 Other binding proteins may be elevated in serum.
 Sex-hormone binding globulins are increased and result in elevated levels of total circulating sex steroids; however, free or biologically active levels either decrease or remain unchanged.

decrease or remain unchanged.

High-density lipoprotain cholesterol (HDL-C) and triglycerides may be increased, while low-density lipoprotain cholesterol (LDL-C) and total cholesterol (Total-C) may be decreased or remain unchanged.

Gluccase tolerance may be decreased.

Serum foliate levels may be depressed by onal contraceptive therapy. This may be of clinical significance if a woman becomes pregnant shortly after discontinuing onal contraceptives.

CARCINOGENESIS

See WARNINGS section.

10. PREGNANCY

Programcy Category X. See CONTRAINDICATIONS and WARNINGS sections.

11. NURSING MOTHERS

Small amounts of oral contraceptive steroids have been identified in the milk of Smalls amounts of oral contraceptive storous rave open identified in the max or invaring mothers and a few adverse effects on the child have been reported, including jaundice and breast enlargement. In addition, oral contraceptives given in the postpartum period may interfere with lacation by decreasing the quantity and quality of breast mist. If possible, the nursing mother should be advised not to use oral contraceptives but to use other forms of contraception until she has

completely weared her child.

12. SEXUALLY TRANSMITTED DISEASES

Patients should be counseled that this product does not protect against HIV infec-tion (AIOS) and other sexually transmitted diseases.

INFORMATION FOR THE PATIENT See Patient Labeling Printed Below

ADVERSE REACTIONS

An increased risk of the following serious adverse reactions has been associated with the use of oral contraceptives (see WARNINGS section):

Thrombophiebitis and venous thrombosis with or without embolism
Arterial thromboembolism

- Putmonary embolism
 Myocardial infarction
 Cerebral hemorrhage
- Cerebral thrombosis
 Hypertension
 Galibladder disease

Hepatic adenomas or benign liver tumors
 The following adverse reactions have been reported in patients receiving oral contraceptives and are believed to be drug-related:

- Nausea Vomiting
- \bullet Gastrointestinal symptoms (such as abdominal cramps and bloating) \bullet Breakthrough bleeding

- Spotting
 Change in menstrual flow
- Temporary infertility after discontinuation of treatment
- Edema

- Melasma which may persist
 Breast changes: tenderness, enlargement, secretion
- Change in weight (increase or decrease)
 Change in cervical erosion and secretion
 Diminution in lactation when given imme

- Cholestatic jaundice
- Migraine
- Rash (allergic)
 Mental depression
 Reduced tolerance to carbohydrates
- Vaginal candidiasts
 Change in corneal curvature (steepening)
 Intolerance to contact lenses
- The following adverse reactions have been reported in users of oral contraceptives and the association has been neither confirmed nor refuted:
 - Pre-menstrual syndrome

 - Pre-mensurum synorom
 Cataracta
 Changes in appella
 Cystitis-lika syndrome
 Headache
 Nervousness

- Dizzinesa
- Loss of scale hair
- Erythema multiforme Erythema nodosum

- Vaginitie
 Vaginitie
 Porphyria
 Impaired renal function
 Hamolytic uremic syndrome
- Acne Changes in libido
- Budd-Chlari Syndrome

OVERDOSAGE

Serious ill effects have not been reported following acute ingestion of large doses of oral contraceptives by young children. Overdosage may cause nausea, and withdrawal bleeding may occur in females.

NON-CONTRACEPTIVE HEALTH SEMERITS:

The following non-contraceptive health benefits related to the use of oral contraceptives are supported by epidemiological studies which largely utilized oral contraceptive formulations containing estrogen doses exceeding 0.035 mg of ethinyl estradiol or 0.05 mg of mestranol (73-78). Effects on menses:

- Errects on merses:

 increased manstrual cycle regularity
 decreased blood lose and decreased incidence of Iron deficiency anemia
 decreased incidence of dysmenormal
 Effects related to inhibition of orwulation:
 decreased incidence of functional ovarian cysts

- decreased incidence of ectopic pregnancies

- occasion autorition to ecopic pregnancies
 decreased incidence of fibroalmonas and fibrocystic disease of the breast
 decreased incidence of acuts pelvic inflammatory disease
 decreased incidence of antiometrial Canter
- decreased incidence of ovarian cancer

DOSAGE AND ADMINISTRATION

To achieve maximum contraceptive effectiveness, Apri (desogestrel and ethinyl estradi-ol) Tablets must be taken exactly as directed and at intervals not exceeding 24 hours. Apri tablets may be initiated using either a Sunday start or a Day 1 start.

NOTE: Each cycle pack blister card dispenser is preprinted with the days of the week, starting with Sunday, to facilitate a Sunday start regimen. Sto different "day label stripe" are provided with each cycle pack bitser card in order to accommodate a Day 1 start regimen. In this case, the patient should place the self-adhesive "day label strip" that corresponds to her starting day over the preprinted days.

21-Day Regisses (Day 1 Start).

The dosage of the Apri Tablet 21-Day Regimen for the initial cycle of therapy is one tablet administered daily from the 1st day through the 21st day of the menstrual cycle, counting the first day of menstrual flow as "Day 1." For subsequent cycles, no tablets are taken for 7 days, then a new course is started of one tablet a day for 21 days. The dosage regimen then continues with 7 days of no medication, followed by 21 days of medication, instituting a three-weeks-on, one-week-off dosage regimen.

The use of the April Tablet 21-Day Regimen for contraception may be initiated 4 weeks postpartum in women who elect not to breast feed. When the tablets are administered during the postpartum period, the increased risk of thromboembolic disease associated with the postpartum period must be considered. (See CONTRAINDICATIONS and WARRINGS concerning thromboembolic disease. See also PRECAUTIONS for "Nursing



- 1

Momers,) in the patient starts on desognated and entirty estration tables postpartium, and has not yet had a period, she should be instructed to use another method of contraception until a rose-colored tablet has been taken daily for 7 days. The possibility of traception until a rose-colored tablet has been taken daily for 7 days. The possibility of ovulation and conception prior to initiation of medication should be considered. If the patient misses one (1) active tablet in Weeks 1, 2, or 3, the tablet should be taken as soon as she remembers. If the patient misses two (2) active tablets in Week 1 or Week 2, the patient should tate two (2) tablets the day she remembers and two (2) tablets the next day; and then continue taking one (1) tablets a day until she finishes the pack. The patient should be instructed to use a back-up method of birth control if she has sex in the seven (7) days after missing pills. If the patient misses two (2) active tablets in the third week or misses three (3) or more active tablets in a row, the patient should throw out the rest of the pack and start a new pack that same day. The patient should be instructed to use a back-up method of birth control if she has sex in the seven (7) days after missing oils. after missing pills.

21-Day Regimes (Sandey Start)
When taking the Apri Tablet 21-Day Regimen, the first rose-colored tablet should be taken on the first Sunday after menstruation begins. If period begins on Sunday, the first rose-colored tablet is taken on that day. If switching directly from another oral control copins, the first rose-colored tablet should be taken on the first Sunday after the last ACTIVE tablet of the previous product. One rose-colored tablet is taken daily for 21 days. For subsequent cycles, no tablets are taken for seven days, then a new course is started of one tablet a day for 21 days instituting a 3-weeks-on, one-week-off dosage regimen. When initiating a Sunday start regimen, another method of contraception should be used until after the first 7 consecutive days of administration.

The use of the Apri Tablet 21-Day Regimen for contraception may be instated 4 weeks postpartum in women who elect not to breast feed. When the tablets are administered during the postpartum period, the increased risk of thromboembotic disease associated with the postpartum period must be considered. (See CONTRAINGRATIONS for "Nursing WARNINGS concerning thromboembotic disease. See also PRECAUTIONS for "Nursing WARNINGS concerning thromboembotic disease. See also PRECAUTIONS for "Nursing Mothers.") If the patient starts on the Apri tablets postparum, and has not yet had period, she should be instructed to use another method of contraception until a rose-coloned tablet has been taken daily for 7 days. The possibility of ovutation and conception prior to initiation or medication should be considered. If the patient missass two (2) active tablets in Weeks 1, the patient missass two (2) active tablets in Weeks 1, the patient should she will be patient missass two (2) active tablets in Week 1 or Week 2, the patient should she wo (2) tablets the next day; and then continue taking one (1) tablet a day until she finishes the pack. The patient should be instructed to use a back-up method of birth control if she has sax in the seven (7) days after missaing pills. If the patient missass two (2) active tablets in the third week or misses three (3) or more tablets in a row, the patient should continue taking one tablet every day until Sunday. On Sunday the patient should be instructed to use a back-up method of birth control if she has sex in the saven (7) days after missing pills.

29-Day Regimes (Day 1 Start)

The dosage of the Apri Tablet 29-Day Regimen for the initial cycle of therapy is one tablet administered daily from the 1st day through 21st day of the menstrual cycle, counting the first day of menstrual from as Tost. Tablets are daten without interruption as follows: One rose-colored tablet daily for 21 days, then one white tablet daily for 7 days. After 28 tablets have been taken, a new course is started and a rose-colored tablet is

The use of the Apri Tablet 28-Day Regimen for contraception may be initiated 4 weeks postpartum in women who elect not to breast feed. When the tablets are administered during the postpartum period, the increased risk of thromboembolic disease associated with the postpartum period must be considered. (See CONTRAINDICATIONS and WARNINGS concerning thromboembolic disease. See also PRECAUTIONS To "Nursing Mothers.") If the patient starts on Apri tablets postpartum, and has not yet had a period, she should be instructed to use another method of contraception until a rose-colod, she should be instructed to use another method of contraception until a rose-colored tablet has been taken daily for 7 days. The possibility of ovutation and conception prior to initiation of medication should be considered. If the patient misses one (1) active tablet in Weeks 1, 2, or 3, the tablet should be taken as soon as she remembers. If the patient misses two (2) active tablets in Week 1 or Week 2, the patient should take wo (2) tablets the day she remembers and two (2) tablets the next day; and then continue taking one (1) tablet a day until she finishes the pack. The patient should be instructed to use a back-up method of birth control if she has sex in the seven (7) days of the missing one (1) tablet a day until she finishes the pack. after missing piles. If the patient misses two (2) across the tribid week or misses three (3) or more active tablets in a row, the patient should throw out the rest of the pack and start a new pack that same day. The patient should be instructed to use a back-up method of birth control if she has set in the seven (7) days after missing pills.

28-Osy Regisses (Sanday Start)
When taking the April Tablet 28-Day Regismen, the first rose-colored tablet should be taken on the first Sunday after menstruation begins, if period begins on Sunday, the first rose-colored tablet is taken on that day, if switching directly from another oral contraceptive, the first rose-colored tablet should be taken on the first sunday after the last ACTIVE tablet of the previous product. Tablets are taken without interruption as follows: One rose-colored tablet daily for 21 days, then one write tablet daily for 7 days. After 2 tablets tablets have been taken, a new course is started and a rose-colored tablet is taken the next day (Sunday). When initiating a Sunday start regimen, another method of contraception should be used until after the first 7 consecutive days of administration.

ception should be used until after the first 7 consecutive days of administration.

The use of the Apri Tablet 28-Day Regimen for contraception may be initiated 4 weeks postpartum. When the tablets are administered during the postpartum period, the increased risk of thromboemboild disease associated with the postpartum period must be considered. (See CONTRAINDICATIONS and WARNINDS concerning thromboemboild disease. See also PRECAUTIONS for "Nursing Mothers.") If the patient starts on Apri tablets postpartum, and has not yet had a period, she should be instructed to use another method of contraception until a rose-colored tablet has been taken daily for 7 days. The possibility of ovusition and conception prior to initiation of medication should be considered. If the patient misses one (1) active tablet in Weeks 1, 2, or 3, the tablet should be taken as soon as she remembers. If the patient insisses two (2) active tablets in Week 1 to regime should take two (2) tablets the day she remembers and two (2) tablets the next day; and then continue taking one (1) tablet a day until she finishes the pack. The patient should be instructed to use a back-up method of birth control if she has sex in the seven (7) days after missing pills. If the patient misses two (2) active tablets in the third week or misses three (3) or more tablets in a row, the patient should be instructed to use a back-up method of birth control if she has sex in the seven (7) days after missing pills.

ALL ORAL CONTRACEPTIVES
Breakthrough bleeding, spotting, and amenorrhea are frequent reasons for patients

discontinuing oral contraceptives. In breakthrough bleeding, as in all cases of irregular bleeding from the vagina, nonfunctional causes should be borne in mind. In undiagnosed persistent or recurrent abnormal bleeding from the vagina, adequate diagnosed persistent or recurrent abnormal bleeding from the vagina, adequate diagnostic measures are indicated to rule out pregnancy or malignancy. If pathology has been excluded, time or a change to another formutation may solve the problem. Changing to an oral contraceptive with a higher estrogen content, while potentially useful in minimizing mensional integrating, should be done only if necessary since this may increase the risk of thromboemboils disease.

Use of oral contraceptives in the event of a missed menstrual period:

1. If the patient has not achieved to the prescribed scheduls, the possibility of pregnancy should be considered at the time of the first missed period and oral contraceptive use should be discontinued until pregnancy is ruled out.

2. If the patient has achieved to the prescribed regimen and misses two consecutive periods, pregnancy should be ruled out before continuing oral contraceptive use.

HOW SUPPLIES

Apri (desogastrel and ethinyl estradiol) Tablet 28 Day Regimen blister cards contain 21 round, unscored, rose-colored tablets and 7 round, unscored white tablets. Each rose-colored tablet (debossed with "\(\phi\) on one side and "575" on the other side) contains 0.15 mg desogastrel and 0.03 mg ethinyl estradiol. Each white tablet (debossed with "\(\phi\) on one side and "570" on the other side) contains linert ingredients. "4," on one side and "3/0" on the other cards NOC# 51285-578-28.

Apri (desogestret and ethinyl estradiol) Tablet 21 Day Regimen bister cards contain 21 round, unscored rose-colored tablets. Each rose-colored tablet (debossed with "\$" on one side and "575" on the other side) contains 0.15 mg desogestret and 0.03 mg ethinyl

Cartons of 6 bilster cards NDC# 51285-575-21.

\$TDRAGE: Store at controlled room temperature 15°-30°C (59°-86°F).

DURANES PHARMACEUTICALS, INC. CINCROMUTI, OHIO 45213 USA

REFERENCES

1. Hatcher RA, et al. 1994: Contraceptive Technology: Stotsenth Revised Edition. New York, NY; Invington Publishers. 2. Stadiel SV. Oral contraceptives and cardiovascular disease. (Pt.1). N Engl J Med 1991; 305: 612-618. 3. Stadiel SV. Oral contraceptives and cardiovascular disease. (Pt.1). N Engl J Med 1991; 305: 612-618. 3. Stadiel SV. Oral contraceptives and cardiovascular disease. (Pt.1). N Engl J Med 1991; 305: 612-677. 4. Adam SA. Thorogood M. Oral contraceptives and dynamical state of the preparations and prescribing patterns. Br J Obstet and Gynecol 1991; 38: 638-645. S. Marm J., Imman WH. Oral contraceptives and death from myocardial infarction. Br Med J 1975; 2(5965):245-248. S. Marm J., Vessey MP, Thorogood M. Doll R. Myocardist infarction in young women with special reference to oral contraceptive practice. Br Med J 1975; 2(5965):241-245. 7. Royal College of General Practitioners' Oral Contraception. Study: Further analyses of mortality in oral contraceptive users. Lamest 1961; 1:541-548. S. Sloan O. Shapiro S. Kashnan DW. Rosenberg L. Miestimen OS, Stotley PD. Rist of myocardial infarction in relation to current and discontinued use of oral contraceptives. N Engl J Med 1981; 305:420-424. S. Vessey MP. Fernals hormones and vascular diseases—an epidemiological overview. Br J Fern Plenn 1980; 61:112. 18, Russell-Briefall diseases—an epidemiological overview. Br J Fern Plenn 1980; 61:112. 18, Russell-Briefall and contraceptive user. United States, 1978-80. Prevent Med 1986;15:332-382. 11. Goldbaum GM, Kondrick JS, Hogelin GC, Gentry EM. The relative impact of smotting and cord contraceptive user on women in the Inthito States. LAMA 1937; 255:1339-1342. 12. Layde PM. Bernal V. Further analyses of mortality in oral contraceptive users: Royal College General Practitioners' Oral Contraception Study. (Table 5) Lancet 1981; 1:541-548. 18. Knopp RH. Advarioscierosis risk: the roles of oral contraceptives and contraceptives and post-menopausal estrogens. J Reprod Med 1986; 31(9) (Supplement):913-92 ease, a numer report. By were 1 years 2 (1909) to 1909 and the not provided and pro General Practitionars: Oral contraceptives, venous thrombosis, and varicose veins. J. Royal Coil Gen Pract 1978; 28:383-399. 27. Cotaborative Group for the Study of Stroke in Young Women: Oral contraception and increased risk of cerebral ischemia or thrombosis. N Engl J Med 1973; 28:871-878. 28. Petitid DB, Wingerd J. Use of oral contraceptives, cigarette smoking, and risk of subanachnoid hemorrhage. Lancet 1978; 2:234-238. 28. Imman WM. Oral contraceptives and fatel subanachnoid hemorrhage. Br Med J 1979; 2 (6203):1488-70. 38. Cotlaborative Group for the Study of Stroke in Young Women: Oral contraceptives and stroke in young women: associated risk factors. JAMA 1975; 231:718-722. 31. Imman WM. Vessey MP. Westarholm B, Engelund A. Thromboembotic disease and the steroidal contract of oral contraceptives. A report the Committee on Safety of Drups. Br Med J 1970; 2:203-209. 32. Mesate TW. Greenberg G, Thompson SG. Progestingers and cardiovascular reactions associated with oral contraceptives and a comparison of the safety of 50- and 35-mag cestrogen preparations. Br Med J 1980; 280 (6224):1157-1161. 33. Kay CR. Progestingers and arterial disease-evidence from the Royal College of General Practitioners: Study. An J Obstet Gynecol 1982; 142:782-785. 38. Royal College of General Practitioners: Study and Perspectives 1983:15:50-55. 38. The Cancer and Steroid Hormone Study of the Centers for Disease Control and the National Institute of Child Health and Human Development: Dral-contraceptive use and the risk of breast cancer. N Engl J Med 1988; 315:405-411. 37. Pilos MC, Henderson BE, Krailo MD, Duke A. Roy S. Breast cancer risk in young women and use of onal contraceptive use and the risk of breast cancer. N Engl J Med 1988; 315:405-411. 37. Pilos MC, Henderson BE, Krailo MD, Duke A. Roy S. Breast cancer risk in young women and use of onal contraceptive use and the risk of breast cancer. N Engl J Med 1988; 315:405-411. 37. Pilos MC, Henderson BE, Krailo MD, Duke A. Roy S. Dears GFS, Keidor JM. Oral contraceptives and b Obstet Gynecol 1986; 68:863-868. 48. Okson H, Otson KL, Moller TR, Ranstam J, Holm P, Oral contraceptive use and breast cancer in young women in Sweden (letter). Lancet 1985; 2:748-749. 41. McPherson K, Vessey M, Nei A, Ool R, Jones L, Roberts M, Early contraceptive use and breast cancer. Results of another case-control study. Br J Cancer 1987; 56:653-660. 42. Huggins GR, Zucker PF, Oral contraceptives and neoplasta: 1987 updata. Fertil Sterit 1987; 47:733-761. 48. McCPherson K, Orfie JO. The pril and breast cancer: with eunocrazinty? Br Med J 1986; 293:709-710. 48. Shapiro S. Oral contraceptives-time to take stock. N End J Mac 1987; 215:450.

Health and Human Development: Oral-contraceptive use and the risk of breast cancer. N Engl J Med 1986; 315:405-411. 37. Pike MC, Henderson BE, Kralio MD, Duke A, Roy A Engl. Med 1988; 315-05-411.37. Pilsa MC, Henderson BE, Krailo MD, Outa A, Roy S. Breast Cancer risk in young women and use of one contraceptives possible modelying effect of formulation and aga at use. Lancet 1985; 2:228-229. 38. Paul C, Stago D6, Schars G78, Albor JM, Oral Common Commo

igid and carbohydrate metabolism. N Engl J Med 1990; 323:1375-81. 91. Kloosterboer, HJ et al. Selectivity in progesterone and androgen receptor binding of progestogens used in oral contraception. Contraception, 1988;38:325-32. 92. Van der Vies, J and de used in oral contraception. Contraception, 1989;38:325-32. 92. Van der Vies, J and de Visser, J. Endocrinological studies with desopestrel. Azneim. Forsch./Drig Res., 1983;3(I):2:231-6. 93. Data on file, Organon Inc., 94. Forherby, K. Oral contraceptives, Biblis and cardiovascular diseases. Contraception, 1985; Vol. 31; 4:387-94. 95. Lawrence, DM et al. Reduced sex hormone binding globulin and derived free testosterone levels women with severe acro. Clinical Endocrinology, 1981;15:87-91. 99. Cutiberg, G et al. Effects of a low-dose desopestrel-ethinyl estradiol combination on hirsutism, androgene and sex hormone binding globulin in women with a polycystic overy syndroms. Acta Obstet Gynecol Scand, 1985; 64:195-202. 97. Jung-Hoffmann. C and Kulh. H. Divergent a effects of two low-dose one commisceptives on sex hormone-binding globulin and free testosterone, AUOS, 1987; 155:199-203. 98. Hammond, G et al. Serum steroid binding notein concentrations, distribution of procestioners, and bloansiability of testosterone testosterone, AJOS, 1987; 156:199-203, 88. Hammond, G et al. Serum steroid binding grotein concentrations, distribution of progestopers, and bioavailability of testosterone during treatment with contraceptives containing desognished or levenorgestral. Fortil. Steril., 1984;42:44-51, 98. Pateril, R et al. Serum total and unbound testosterone and exchomone binding globulin (SHBG) in female acre patients treated with two different oral contraceptives. Acta Derm Venerool, 1984; 64:517-23, 198. Lewis M. Spitzer WO, Heinemann LAJ, MacRae KD, Bruppacher R, Thorogood M on behalf of Transpational Research Group on Oral Contraceptives and health of Young Women. Third generation oral contraceptives and risk of myocardial infanction: an international case-control study. 8r Med J, 1998;312:88-90.

Brief Summary Patient Package Insert

Apri™ (desogestrel and ethinyl estradiol) Tablets

B only

Oral contraceptives, also known as "birth control pills" or "the pill," are taken to prevent pregnancy, and when taken correctly, have a failure rate of about 1% per year when used without missing any pills. The typical failure rate of large numbers of pill users is less than 3% per year when women who miss pills are included. For most women, oral contraceptives are also free of serious or unpleasant side effects. However, forgetting to take pills considerably increases the chances of pregnancy.

For the majority of women, oral contraceptives can be taken safely. But there are some women who are at high risk of developing certain serious diseases that can be life-threatening or may cause temporary or permanent disability. The risks associated with taking oral contraceptives increase significantly if your

• smoke • have high blood pressure, disbetes, high cholesterol • have or have had clotting disorders, heart attack, stroke, angine pectoris, cancer of the breast or sex organs, jaundice or malignant or benign liver tumors. Although cardiovascular disease risks may be increased with one contraceptive use after age 40 in healthy, non-amoking women (even with the never low-dose formulations), there are also greater potential health risks associated with pregnancy in older

You should not take the pill if you suspect you are pregnant or have unexplained vagi-

Cigarette conting increases the risk of serious cardiovaecular side effects from oral contraceptive use. This risk increases with age and with heavy smalling (15 or more cigarettes per day) and is quite marked in women over 35 years of age. Women whe use eral contraceptives are strengly advised not be smalle.

Most side effects of the pill are not serious. The most common such effects are nauses vomiting, bleeding between menstrual periods, weight gain, breast tendemess, headache, and difficulty wearing contact lenses. These side effects, especially nausea and vomiting, may subside within the first three months of use.

- and vomiting, may subside within the first three morats of use.

 The serious side effects of the pill occur very infrequently, especially if you are in good health and are young. However, you should know that the following medical conditions.

 have been associated with or made worse by the pill:

 1. Blood clots in the legs (thrombophishitis) or lungs (pulmonary embolism), stoppage or rupture of a blood vessel in the brain (stroke), blockage of blood vessels in the heart (heart attack or angina pectoris) or other organs of the body. As mentioned above, amolding increases the risk of heart attacks and strokes, and subsequent serious medical consequences.

 2. Liver tumors, which may rupture and cause severe bleeding. A possible but not definite association has been found with the pill and liver cancer. However, ther cancers are extremely rum. The chance of developing liver cancer from using the
- cancers are extremely rare. The chance of developing liver cancer from using the
- High blood pressure, although blood pressure usually returns to normal when the pill is stopped.

The symptoms associated with these serious side effects are discussed in the detailed patient labeling given to you with your supply of pits. Notify your doctor or clinic if you notice any unusual physical disturbances while taking the pill. In addition, drugs such as interrupt, as well as some anticonvulsants and some antiblotics may decrease oral contraceptive effectiveness.

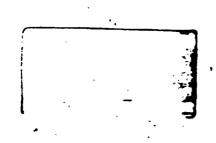
contraceptive errectiveness.

There is conflict among studies regarding breast cancer and oral contraceptive usa.

Some studies have reported an increase in the risk of developing breast cancer, particularly at a younger age. This increased risk appears to be reisland to duration of usa. The majority of studies have found no overall increase in the risk of developing breast carcer. Some studies have found an increase in the incidence of cancer of the cervix in women who use oral contraceptives. However, this finding may be related to factors other than the use of oral contraceptives. There is insufficient evidence to rule out the possibility that pills may cause such cancers.

Taking the pill provides some important non-contraceptive benefits. These include less painful menstruction, less menstrus blood loss and anemia, lewer pelvic infections, and ower cancers of the ovary and the lining of the uterus.

Be sure to discuss any medical condition you may have with your doctor or clinic. Your doctor or clinic will take a medical and family history before prescribing and contraceptives and will examine you. The physical examination may be delayed to another time if you request it and your doctor or clinic believes that it is a good medical practice to postpone it. You should be reexamined at least once a year while taking oral contraceptives. The detailed patient information labeling gives you further information which you should read and discuss with your doctor or clinic.



THIS PRODUCT (LIKE ALL ORAL CONTRACEPTIVES) IS INTENSED TO PREVENT PREBIAMCY, IT DOES NOT PROTECT AGAINST TRANSMISSION OF HW (AIDS) AND OTHER SEXUALLY TRANSMITTED DISEASES SUCH AS CHLANYDIA, GENETAL HERPES, GENTAL WARTS, GONORRIEA, HERVITTS 8, AND SYPHILIS.

DETAILED PATIENT LABELING

PLEASE NOTE: This tabeting is revised from time to time as important new modical information becomes available. Therefore, please review this tabeting carefully. The following oral contraceptive products contain a combination of progestogen and estrogen, the two kinds of female hormones:

April (desognated and etisinyl estration) Tablet 28 Day Ragisma Bilister Card Each rose-colored tablet contains 0.15 mg desognated and 0.03 mg ethinyl estraciol. Each white tablet contains inert ingradients.

April (desognative) and ethicut extradiol) Tablet 21 Oay Regimes Bilater Card Each rose-colored tablet contains 0.15 mg desognated and 0.03 mg ethicut estradiol.

INTRODUCTIONS

Any woman who considers using one contraceptives (the birth control pill or the pill) should understand the benefits and risks of using this form of birth control. This patient labeting will give you much of the information you will need to make this decision and will also help you determine if you are at risk of developing any of the serious side effects of the pill, it will tell you how to use the pill property so that it will be as effective as possible. However, this labeting is not a replacement for a careful discussion between you and your doctor or clinic. You should discuss the information provided in this labeting with him or her, both when you first start taking the pill and during your revisits. You should siso follow your doctor's or clinic's advice with regard to regular chack-ups writle you are on the pill.

EFFECTIVENESS OF ORAL CONTRACEPTINES

Oral contraceptives or "birth control pills" or "the pill" are used to prevent programcy and are more effective than other non-surgical methods of birth control. When they are and are more ensecuse train own mon-surgicum meanous or outmichitists, which they are laken correctly, the chaince of becoming pregnant is less than 1% (1 pregnancy per 100 women per year of use) when used perfectly, without missing any pills. Typical failure rates are actually 3% per year. The chance of becoming pregnant increases with each missed pill during a measural cycle. In comparison, typical failure rates for other non-surgical methods of birth control dur-

ing the first year of use are as follows

Implant	<1%
Injection:	<1%
IÚD:	1 to 2%
Diaphragm with spermicides:	18%
Spermicides alone:	21%
Vaginal sponge:	18 to 38
Cervical Cap:	18 to 3
Condom alone (male):	12%
Condom alone (female):	21%
Periodic abstinence:	20%
No methods:	85%

WHO SHOULD NOT TAKE ORAL CONTRACEPTIVES

Cigaretto smoking increases the risk of serious continuescular side effects from oral contraceptive sea. This risk increases with age and with beavy smoking (15 or more cigarettes per day) and is quite marked in women over 35 years of age. Women who are oral contraceptives are strongly advised not to smoke.

Some women should not use the pill. For example, you should not take the pill if you are programt or think you may be programt. You should also not use the pill if you have any of the following conditions:

• A history of heart attack or stroke

- Blood clots in the legs (thrombophlebitis), lungs (pulmonary embolism), or eyes
 A history of blood clots in the deep veins of your legs

- Chest pain (angina pectoris)
 Known or suspected breast cancer or cancer of the lining of the uterus, cervix or

Known or suspected breast cancer or cancer of the israng of the uterus, carvix or vagina.
 Unexplained vaginal bleeding (until a diagnosis is reached by your doctor)
 Yeldowing of the whites of the eyes or of the stdn (gaundice) during programcy or during previous use of the pill.
 Liver tumor (benign or cancerous)
 Known or suspected pregnancy
 Tell your doctor or clinic if you have ever had any of these conditions. Your doctor or clinic can recommend a safer method of birth control.

OTHER CONSIDERATIONS BEFORE TAKING ORAL CONTRACEPTIVES Tell your doctor or clinic if you have or have had: • Breast nodules, fibrocystic disease of the breast, an abnormal breast x-ray or mam-

- тодгат Diabetes

- Elevated cholesterol or triglycerides
 High blood pressure
 Migraine or other headaches or epilepsy

Migrature or owner negatacries or equippey
 Merital depression
 Gallbladder, heart or lidiney disease
 History of scartly or irregular menstrual periods
 Women with any of these conditions should be checked often by their doctor or clinic if

they choose to use oral contraceptives.

Also, be sure to inform your doctor or clinic if you smoke or are on any medications.

RISKS OF TAKING ORAL CONTRACEPTINES

RISES OF TAKENG ONAL CONTRACEPTIVES

1. Risk of developing blood clots
Blood clots and blockage of blood vessels are one of the most serious side effects of
taking oral contraceptives and can cause death or serious disability. In particular, a clot
in one of the legs can cause thrombophteitits and a clot that travels to the lungs can
cause a sudden blocking of the vessel carrying blood to the lungs. These risks are
greater with desogestral-containing oral contraceptives, such as Apri (desogestral entirity) estration) Tables, than with other low-dose pits. Rarely, clots occur in the blood
vessels of the eye and may cause blindness, double vision, or impaired vision.
If you take oral contraceptives and need elective surgery, need to stay in bed for a prolonged illness or have recently delivered a baby, you may be at risk of developing blood
clots. You should consult your doctor or clinic about stopping oral contraceptives three

to four weeks before surgery and not taking oral contraceptives for two weeks after surgery or during bed rest. You should also not take oral contraceptives soon after delivery of a baby, it is advisable to wait for at least four weeks after delivery if you are not breast teeding or foer weeks after a second trimester abortion, if you are breast feeding, you should wait until you have weened your child before using the pris. (See also the section on Breast Feeding in General Precautions.).

The risk of circulatory disease in oral contraceptive users may be higher in users of

high dose pitts and may be greater with longer duration of onal contraceptive use. In addition, some of these increased risks may continue for a number of years after stopaddition, some of these increased risks may continue for a number of years after stopping or all contraceptives. The risk of abnormal blood coloring increases with age in both users and nonusers of oral contraceptives, but the increased risk from the oral contraceptive appears to be not contraceptives, but the increased risk from the oral contraceptive appears to be not appeared that about 1 in 2,000 usigned contraceptives will be hospitatized each year because of abnormal cotting, Agreeign nonusers in the same age group, about 1 in 2,000 would be hospitalized each year. For oral contraceptive users in general, it has been estimated that in women between the ages of 15 and 34, the risk of death due to a circulated risk of death of the risk of death due to a circulated to death of the risk of death due to a circulated to death of the risk of death due to a circulated to death of the risk of death due to a circulated to death of the risk of death due to a circulated to death of the risk of death due to a circulated to death of the risk of death due to a circulated to death d

2. Heart attacks and strakes

2. Teach strates as a security of the contraceptives may increase the tendency to develop strokes (stoopage or rupture of blood vessels in the brain) and angine pectoris and heart attacks (blockage of blood vessels in the heart). Any of these conditions can cause death or serious disability. Smoking greatly increases the possibility of suffering heart attacks and strokes. Furthermore, smoking and the use of oral contraceptives greatly increase the chances. of developing and dying of heart disea

3. Gulfbladder die

Oral contraceptive users probably have a greater risk than nonusers of having gatiblad-der disease, atthough this risk may be related to pile containing high doses of estrogers.

In rare cases, oral contraceptives can cause berigs but dangerous liver tumors. These benign liver tumors can rupture and cause tatel internal bleeding. In addition, a possible but not definite association has been found with the pill and liver cancers in two studies, in which a few women who developed these very rare cancers were found to have used onel contraceptives for long periods. However, liver cancers are rare.

Ry Cases of the reproductive ergans and breasts

There is conflict among studies regarding breast cancer and onel contraceptive use.

Some studies have reported an increase in the risk of developing breast cancer, particularly at a younger age. This increased risk appears to be related to duration of usa. The majority of studies have found no overall increase in the risk of developing breast cancer. Some studies have found an increase in the incidence of cancer of the cervix in women who use oral contraceptives. However, this finding may be related to factors other than the use of oral contraceptives. There is insufficient evidence to rule out the possibility that pills may cause such cancers.

ESTIMATED RISK OF DEATH FROM A MIRTH CONTROL METHOD OR PRESNAMCY

All methods of birth control and pregnancy are associated with a risk of developing ca-tain diseases which may lead to disability or death. An estimate of the number of deaths associated with different methods of birth control and pregnancy has been calculated and is shown in the following table.

AMMUAL RUMBER OF BIRTH-RELATED OR METHOD-RELATED DEATHS ASSOCIATED WITH CONTROL OF FERTILITY PER 100,000 HON-STERVE WOMEN, BY FERTILITY CONTROL METHOD ACCORDING TO AGE

Method of control and outcome	15-18	29-24	25-29	39-34	35-39	49-44
No fertility control methods*	7.0	7.4	9.1	14.8	25.7	28.2
Oral contraceptives non-smoker**	0.3	0.5	0.9	1.9	13.8	31.6
Oral contraceptives smoker"	2.2	3.4	6.6	13.5	51.1	117.2
IUD	0.8	0.8	1.0	1.0	1.4	1.4
Condom*	1.1	1.6	0.7	0.2	0.3	0.4
Diaphragm/spermicide*	1.9	1.2	1.2	1.3	2.2	2.8
Periodic abstinence*	2.5	1.6	1.8	1.7	2.9	3.6

- Deaths are birth related
- Deaths are method related

In the preceding table, the risk of death from any birth control method is less than In the preceding table, the risk of death from any birth control method is less than the risk of childbirth, except for oral contraceptive users over the age of 35 who smoke and pill users over the age of 40 even if they do not smoke, it can be seen in the table that for women aged 15 to 39, the risk of death was highest with pregnancy (7-26 deaths per 100,000 women, depending on age). Among pill users who do not smoke, the risk of death was always lower than that associated with pregnancy for any age group, although over the age of 40, the risk increases to 3-deaths per 100,000 women, compared to 28 associated with pregnancy at that age. However, for pill users who smoke and are over the age of 35, the estimated number of deaths exceeds those for other methods of birth control. If a woman is over the age of 40 and smokes, her estimated risk of death is four times higher (117/100,000 women) than the estimated risk associated with pregnancy (28/100,000 women) in that and group.

(117/10U,000 women) inter the estimator has associated with prepriative (28/100,000 women) in that age group. The suggestion that women over 40 wine do not smales should not take and contraceptives is based on information from older, higher-dose pills. An Advisory Committee of the FDA discussed this issue in 1999 and recommended that the benefits of low-dose oral contraceptive use by healthy, non-smoking women over 40 years of age may outweigh the possible risks

WARNING SIGNALS

If any of these adverse effects occur while you are taking oral contraceptives, call your doctor or clinic immediately:

- ctor of clinic immediately:

 Sharp chest pain, coughing of blood, or sudden shortness of breath (indicating a possible clot in the lung)

 Pain in the call (indicating a possible clot in the leg)

 Crushing chest pain or heaviness in the chest (indicating a possible heart attack)

- Crustning cheet pass or rearmess in the creat (inductions) a possible real status, Sudden severe headache or vomiting, disziness or fairling, disturbances of vision or speech, weakness, or numbness in an arm or leg (indicating a possible stroke) Sudden partial or complete loss of vision (indicating a possible clot in the eye) Breast lumps (indicating possible breast cancer or fibrocystic disease of the breast ask your doctor or clinic to show you how to examine your breasts) Severe pain or tendemess in the stomach area (indicating a possibly ruptured

- Severe pain of tendements in the sourness area (atolicating a possibly optimized liver tumor). Difficulty in steeping, weakness, tack of energy, fatigue, or change in mood (possibly indicating severe depression). Jaundice or a yellowing of the sidn or eyebalis, accompanied frequently by fever, fatigue, loss of appetits, dark colored urine, or light colored bowel movements (indicating possible liver problems).

SIDE EFFECTS OF GRAL CONTRACEPTIVES

1. Vaginat bleeding. Irregular vaginal bleeding or spotting may occur while you are taking the pitts. Irregular bleeding may vary from slight staining between menstrual periods to breakthrough bleeding which is a flow much like a regular period. Irregular bleeding occurs most often during the first few months of oral contraceptive use, but may also occur after you have been taking the pill for some time. Such bleeding my be temporary and usually does not indicate any serious problems, it is important to continue taking your pits on schedule, if the bleeding occurs in more than one cycle or tasts for more than a few days, talk to your doctor or clinic.

2. Contact leas

Contact leavesYou wear contact leaves and notice a change in vision or an inability to wear your leases, contact your doctor or clinic

Fluid retention
 Oral contraceptives may cause edems (fluid retention) with swelling of the fingers or anides and may raise your blood pressure. If you experience fluid retention, contact your

A spotty darkening of the skin is possible, particularly of the face, which may persist.

S. Other side effects may include nauses and vorniting, change in appetits, headache, ner-vousness, depression, dizziness, loss of scalp hair, rash, and vaginal infections. It any of these side effects bother you, call your doctor or clinic.

GENERAL PRECAUTIONS

GENERAL PRECAUTIONS 1. Missed periods and use of orel contraceptives before or during serly programary. There may be times when you may not menstrusts regularly after you have completed taking a cycle of piles. If you have taken your pilts regularly and miss one menstrust period, continue taking your pilts for the next cycle but be sure to inform your pilts and the period and the piles taking the programment of the period and the piles taking the programment of the piles taking taking the piles taking the piles taking the piles taking the piles taking taking taking the piles taking taking the piles taking ta surusi period, continue taking your pills for the next cycle but be sure to inform your doctor or citize before doing so. If you have not taken the pills daily as instructed and missed a menstrual period, you may be pregnant. If you missed two consecutive menstrual periods, you may be pregnant. Check with your doctor or clinic immediately to determine whether you are pregnant. Do not continue to take oral contraceptives until you are sure you are not pregnant, but continue to use another method of contraception.

of contraception.

There is no conclusive evidence that oral contraceptive use is associated with as increase in birth defects, when taken inadvertishing during early pregnancy. Previously, a few studies had reported that oral contraceptives might be associated with birth defects, but these findings have not been seen is more recent studies. Nevertheless, oral contraceptives or any other drugs should not be used during pregnancy unless clearly necessary and prescribed by your doctor or clinic. You should check with your doctor or clinic about risks to your unborn child of any medication lakes during a representation. taken during pregnancy.

taken during pregnancy.

2. White breast feeding. If you are breast feeding, consult your doctor or clinic before starting oral contracegives. Some of the drug will be passed on to the child in the milk. A few adversardfact on the child have been reported, including yellowing of the sten (aundice) and breast, enlargement, in addition, oral contraceptives may decrease the annount and quality of your milk. If possible, do not use onal contraceptives while breast feeding. You should use another method of contraception since breast feeding provides only partial protection from becoming pregnant and this partial protection decreases significantly as you breast feed for longer periods of time. You should consider starting oral contraceptives only after you have weared your child completely.

3. Laberatory tools
if you are scheduled for any inhoratory tests, tell your doctor or clinic you are taking birth control pills. Certain blood tests may be affected by birth control pills.

4. Drug intere

4. Orag interactions.
Certain drugs may interact with birth control pills to make them less effective in preventing programey or cause an increase in breatdhrough bleeding. Such drugs include rifamplin, drugs used for epitepey such as barbiturates (for example, phenobarbital), anticonvulsants such as carbamazipine (Fegratol is one brand of this drug), phenytoin (Dilantin is one brand of this drug), phenytoin place of the program antibiotics. You may need to use additional contraception when you take drugs which can make oral contraceptives less effective.

يددال أدثاله 5. Sexually trac

Statusary transmission decesses.
 This product (like all oral contraceptives) is intended to prevent pregnancy. It does not protect against transmission of HIV (AIDS) and other sexually transmitted diseases such as chiamydia, genital herpes, genital warts, gonorries, hepatitis B, and syphilis.

HOW TO TAKE THE PRA. IMPORTANT POWITS TO REMEMBER

BEFORE YOU START TAKING YOUR PILLS:

- 1. BE SURE TO READ THESE DIRECTIONS:
- Before you start taking your pills.

 Anytime you are not sure what to do.

 2. THE RIGHT WAY TO TAKE THE PILL IS TO TAKE ONE PILL EVERY DAY AT THES SAME TIME.
- SAME TIME.

 If you miss pilts you could get pregnant. This includes starting the pack late.

 The more pilts you miss, the more libely you are to get pregnant.

 3. MANY WOMEN HAVE SPOTTING OR LIGHT BLEEDING, OR MAY FEEL SICK TO THEIR STOMACH DURING THE FIRST 1-3 PACKS OF PILLS.

 If you feel sick to your stomach, do not stop taking the pill. The problem will usually go away, if it doesn't go away, check with your doctor or clinic.

 MISSING PILLS CAN ALSO CAUSE SPOTTING OR LIGHT BLEEDING, even when you make up these missed pills. On the days you take 2 pills to make up for missed pills you could also feel a little sick to your stomach.

 IF YOU HAVE YOMITING OR DUARNEA, for any reason, or IF YOU TAKE SOME MEDICINES, including some antibiotica, your pilts may not work as well.

 Use a back-up method (such as condoms, foam, or sponge) until you check with your doctor or clinic.

 6. IF YOU HAVE TROUBLE REMEMBERING TO TAKE THE PILL, talk to your doctor or clinic about how to make pill-taking easier or about using another method of birth control.

- 7. IF YOU HAVE ANY QUESTIONS OR ARE UNSURE ABOUT THE INFORMATION IN THIS LEAFLET, cat your doctor or clinic.

 REFORM YOU STANT TAKING YOUR PILLS:

 1. DECIDE WHAT TIME OF DAY YOU WANT TO TAKE YOUR PILL. It is important to take

it at about the same time every day.

2. LOOK AT YOUR PILL PACK TO SEE IF IT HAS 21 OR 28 PILLS:
The 21-pill pack has 21 "active" [rose-colored] pills (with hormones) to take for 3 weeks, followed by 1 week without pills.
The 28-pill pack has 21 "active" [rose-colored] pills (with hormones) to take for 3 weeks, followed by 1 week of reminder [white] pills (with hormones).

3. ALSO FINO:

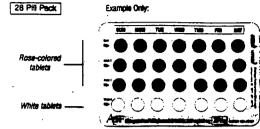
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ALSO FIRM:

1) where on the pack to start taking the pills,

2) in what order to take the pills (follow the arrows) and

3) the week numbers printed on the pack.



4. BE SURE YOU HAVE READY AT ALL TIMES: ANOTHER KIND OF BIRTH CONTROL (such as condoms, foam, or sponge) to use

as a back-up in case you miss pile.

AN EXTRA FILL PILL PACK.

WHEN TO START THE FREET PACK OF PILLS:
You have a choice of which day to start teating your first pack of pills. Decide with your doctor or clinic which is the best day for you. Pick a time of day which will be easy to

DAY 1 STARR

- UART 1 a busics.

 1. Pick the day label strip that starts with the first day of your period (this is the day you start bleeding or spotting, even if it is almost midnight when the bleeding begins.)

 2. Place this day label strip on the cycle bablet disperser over the area that has the days of the week (starting with Sunday) printed on the bilister card.

Pick Correct Day Label THU FRE SAT SUN MON TUE WED Peel and place label here. Examp Only:

- Note: If the first day of your period is a Sunday, you can skip steps #1 and #2.

 3. Take the first "active" [rose-colored] pill of the first pack during the first 24 hours of
- your period.

 4. You will not need to use a back-up method of birth control, since you are starting the pill at the beginning of your period. SUNDAY START:
- Take the first "active" [rose-colored] pill of the first pack on the <u>Sunday after your</u> period starts, even if you are still bleeding. If your period begins on Sunday, start the
- Centrol sealing, over it is you are such through the pack that same day.

 2. Use another method of birth control as a back-up method if you have sex anytime from the Sunday you start your first pack until the next Sunday (7 days). Condoms, fearn, or the sponge are good back-up methods of birth control.

 WHAT TO DO DURING THE MONTH:

 1. TAKE CREE PILL AT THE SAME TIME EVERY DAY UNITE. THE PACK IS SIMPTY.

- 1. TAIC GREE PHIL AT THE SAME TIME EVERY OUT UNTIL THE PACK IS CHIPTY.

 Do not stop pile even if you are spotting or bleeding between morthly periods or feet sick to your stomach (nausses).

 Do not stop pile seven if you do not have sex very offen.

 21 piles:

 What 7 days to start the next pack. You will probably have your period during that week. Be sure that no more than 7 days pass between 21-day packs.

 28 piles:

 Start the next pack on the day after your last "reminder" pill. Do not wait any days between packs.

 WHAT TO DO SF YOU MISS PILE:

 If you MISSE 3 (meas-crientall "arther" pill.

- WHAT TO DO BY YOU MIRES PLLICY
 If you MESS 1 [rose-colored] "active" pilit.

 1. Take it as soon as you remember. Take the next pill at your regular time. This means you take 2 pits in 1 day.

 2. You do not need to use a back-up birth control method if you have sex.

 If you MESS 2 [rose-colored] "active" pilts in a row in WEER 1 0R.

WEEK 2 of your pack:

1. Take 2 pits on the day you remember and 2 pits the next day.

- Then take 1 pits a day until you finish the pack.

 You MAY BECOME PREGNANT if you have sex in the 7 days after you miss pits. You MUST use another birth control method (such as condoms, foam, or sponge) as a

MUST use another burth control method (such as condoms, roam, or sponge) as a back-up method for those 7 days.

If you MSS 2 [rose-colored] "active" pits in a row in THE 380 WESS:

1. If you were a Day 1 Startist:

THROW OUT the rest of the piti pack and start a new pack that same day.

If you are a Saustay Startist:

Keep taking 1 piti every day until Sunday.

On Sunday, THROW OUT the rest of the pack and start a new pack of pitis that same

2. You may not have your period this month but this is expected. However, if you miss

- nant.
 3. You MAY BECOME PREGNANT if you have sex in the 7 days after you miss pills. You MAUST use another birth control method (such as condoms, foam, or sponge) as a back-up method for those 7 days.
 If you MISS 3 Off MORE (rose-colored) "active" pills in a row (during the first 3 weeks).

 1. If you are a Day 7 Starter:
 THROW OUT the rest of the pill pack and start a new pack that same day.
 If you are a Sanday Starter:
 Keep taking 1 pill every day until Sunday.
 On Sunday, THROW OUT the rest of the pack and start a new pack of pills that same day.

- a.y.
 2. You may not have your period this month but this is expected. However, if you miss your period 2 months in a row, call your doctor or clinic because you might be preg-
- 7.3 You MAY BECOME PREGNANT if you have sex in the 7 days after you miss pills. You MUST use another birth control method (such as condoms, form, or sponge) as a back-up method for those 7 days.

A REMINIOER FOR THOSE ON 28 OAY PACKS:
If you forget any of the 7 (white) "reminder" pills in Week 4:
THROW AWAY the pills you missed.
Keep taking 1 pill each day until the pack is empty.
You do not need a back-up method.

FINALLY, IF YOU ARE STILL NOT SURE WHAT TO DO ABOUT THE PILLS YOU HAVE

Use a BACK-UP METHOD anytime you have sex. KEEP TAKING ONE (rose-colored) "ACTIVE" PILL EACH DAY until you can reach your

PRESIMANCY DUE TO PILL FAILURE
The incidence of pill failure resulting in pregnancy is approximately one percent (i.e., one pregnancy per 100 women per year) if taken every day as directed, but more typical failure rates are about 3%. If taken every day as directed, but more typical failure rates are about 3%. If taken every day as directed, but more typical failure acress the failure does occur, the risk to the folius is minimal.

PRESIMANCY AFTER STOPPING THE PILL.

There may be some detay in becoming pregnant after you stop using onal contraceptives, especially if you had irregular menstrual cycles before you used onal contraceptives, it may be advisable to postpone conception until you begin menstruating regularly once you have stopped taking the pill and destine prognancy.

There does not appear to be any increase in birth defects in newborn bables when pregnancy occurs soon after stopping the pill.

OVERDOSAGE

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Serious ill effects have not been reported following ingestion of large doses of oral con-traceptives by young children. Overdosage may cause nauses and withdrawal bleeding in females. In case of overdosage, contact your doctor, clinic or pharmacist.

OTHER INFORMATION

OTHER INFORMATION

Your doctor or clinic will take a medical and family history before prescribing oral contraceptives and will examine you. The physical examination may be delayed to another time if you request it and your doctor or clinic believes that it is a good medical practice to postpone it. You should be reexamined at least once a year. Be sure to inform your doctor or clinic if there is a family history of any of the conditions listed previously in this leaflet. Be sure to keep at appointments with your doctor or clinic because this is a time to determine if there are early signs of side effects of oral contraceptive use.

On not use the drug for any condition other than the one for which it was prescribed. This drug has been prescribed specifically for you; do not give it to others who may want birth control pitie.

HEALTH BENEFITS FROM GRAL CONTRACEPTIVES
In addition to preventing pregnancy, use of combination onal contraceptives may provide certain benefits. They are:

- mensional cycles may become more regular

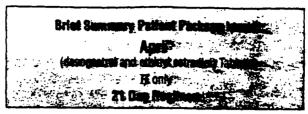
- menstrual cycles may become more regular
 blood flow during menstruation may be lighter and less iron may be lost. Therefore, anemia due to iron deficiency is less likely to occur.
 pain or other symptoms during menstruation may be encountered less frequently.
 ectopic (tubal) pregnancy may occur less frequently.
 noncancerous cysts or lumps in the breast may occur less frequently.
 acute petivic inflammatory disease may occur less frequently.
 oral contraoptive use may provide some protection against developing two forms of cancer: cancer of the ovaries and cancer of the lining of the uterus.

If you want more information about birth control pills, ask your doctor, clinic or pharmacist. They have a more technical leaflet called the Professional Labeling, which you may wish to read. The Professional Labeling is also published in a book entitled Physicians' Desk Reference, available in many book stores and public libraries.

DURAMED PHARMACEUTICALS, INC. CINCINNATI, OHIO 45213 USA

REV. BLARD

1003504



THIS PRODUCT (LIKE ALL ORAL CONTRACEPTIVES) IS INTENDED TO PREVENT PRESNANCY. IT DOES NOT PROTECT AGAINST HIV INFECTION (AIDS) AND OTHER SEXUALLY TRANSMITTED DISEASES.

MON	TUE	WED	THU	FRI	SAT	SUN
TUE	WED	THU	FRI	SAT	SUN	MON
WED	THU	FRI	SAT	SUN	MON	TUE
THU	FRI	SAT	SUŅ	MON	TUE	WED
FRI	SAT	SUN	MON	TUE	WED	THU
SAT	SUN	MON	TUE	WED	THU	FRI
SUN.	MON	TUE	WED	THU	FRI	SAT



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OCT 28 1999

April (destropestre) and ethicut estrudies) Tables 21 Day Regimen Mileter Card: Contains 21 round rese-colored tablets in a bilister card attached to a "credit card" dispenser. Each rese-colored tablet contains 0.15 mg desogestrel and 0.03 mg ethinyl estradiol.

Oral contraceptives, also known as "birth control pits" or "the pitt," are taken to prevent pregnancy, and when taken correctly, have a failure rate of about 1% per year when used without missing any pils. The typical failure rate of targe numbers of pill users is less than 3% per year when women who miss pits are included. For most women, oral contraceptives are also free of serious numbers and side effects. However, forgetting to take pills considerably increases the chances of pregnancy.

pregnancy.

For the majority of women, oral contraceptives can be taken safely. But there are some women who are at high risk of developing certain serious diseases that can be life-threatening or may cause temporary or permanent disability. The risks associated with taking oral contraceptives increase significantly if you:

• smoke
• have high blood pressure, diabetes, high cholesterot
• have or have had clotting disorders, heart attack, stroke, angine pectoris, cancer of the breast or sex organs, jaundice or malignant or benign liver tumore
Although cardiovescular disease risks may be increased with one contraceptive use after age 40 in healthy, non-smoking women (even with the newer low-does formulations), there are also greater potential health risks associated with pregnancy in contracept to the uneventained vacational bleeding.

You should not take the pill if you suspect you are pregnant or have unexpi

Cigarette smoting increases the risk of serious cardiovacaties side effects from eral contracaptive use. This risk increases with age and with heavy smoting (15 or more cigarettes per day) and is quite marked in women over 35 years of age. Weenes who use oral contraceptives are strongly advised not to smoke.

Most side effects of the pill are not serious. The most common such effects are neusea, vomiting, bleeding between menstrual periods, weight gain, breast tenderness, headache, and difficulty wearing contact lenses. These side effects, especially nausea and vomiting, may subside within the first

three months of use

The serious side effects of the pill occur very infrequently, especially if you are in good health and are young. However, you should know that the following medical conditions have been associated with or made worse by the pill:

- It is listed clots in the legs (thrombophiebitis) or lungs (pulmonary embotism), stoppage or rup-ture of a blood vessel in the brain (stroka), blockage of blood vessels in the heart (heart attack or angina pectoris) or other organs of the body. As mentioned above, smoking increases the risk of heart attacks and strokes, and subsequent serious medical consequences.
- 2. Liver rumons, which may rupture and cause severe bleeding. A possible but not definite association has been found with the pill and liver cancer. However, liver cancers are extremely rare. The chance of developing liver cancer from using the pill is thus even rarer.

 3. High blood pressure, although blood pressure usually returne to normal when the pill is

The symptoms associated with these serious side effects are discussed in the detailed patient label-ing given to you with your supply of pills. Notify your doctor or clinic if you notice any unusual physical disturbances while taking the pill. In addition, drugs such as ritampin, as well as some anticonvulsants and some ambitotics may decrease oral contraceptive effectiveness.

amticonvutaants and some antitiotics may occrease one commonstree encurversas. There is conflict among studies regarding breast cancer and crat contraceptive use. Some studies have reported an increase in the risk of developing breast cancer, particularly at a younger age. This increased risk appears to be related to duration of use. The majority of studies have found no over-all increase in the risk of developing breast cancer. Some studies have found an increase in the incidence of cancer of the cervis in women who use onal contraceptives. However, this finding may be related to factors other than the use of onal contraceptives. However, this finding may be related to factors other than the use of onal contraceptives.

Toking to salars ourse then to use of our companyones. There is insurious evidence to not our the possibility that pills may cause such cancers.

Taking the pill provides some important non-contraceptive benefits. These include less paintul menstruation, less menstrual blood loss and anemia, fewer pelvic infections, and fewer cancers of the ovary and the liming of the uterus.

the ovary and the liming of the uterus.
Be sure to discuss any medical condition you may have with your doctor or clinic. Your doctor or clinic will take a medical and family history before prescribing and contraceptives and will examine you. The physical examination may be delayed to another time if you request it and your doctor or clinic believes that it is a good medical practice to postpone it. You should be reexamined at least once a year while taking oral contraceptives. The detailed patient information labeling gives you further information which you should read and discuss with your doctor or clinic.
THIS PRODUCT (LIKE ALI CRAL CONTRACEPTIVES) IS SITTEMED TO PREVENT PRESIMANCY. IT DOES NOT PROTECT AGAINST TRANSMISSION OF NIV (AIDS) AND OTHER SEXUALLY TRANSMITTED OSSEASES SUCH AS CRAINTOMA, GENTAL MEMPES, GENTAL WARTS, GONORTOMEA, MEPATTITE A. AND RYPHIES.

HOW TO TAKE THE PILL.

BEFORE YOU START TAKING YOUR PILLS:

- 1. BE SURE TO READ THESE DIRECTIONS:
- BE SURE TO READ THESE DIRECTIONS:
 Before you start taking your pills.
 Anytime you are not sure what to do.
 THE RIGHT WAY TO TAKE THE PILL IS TO TAKE ONE PILL EVERY DAY AT THE SAME TIME. IT you miss pills you could get pregnant. This includes starting the pack late. The more pills you miss, the more likely you are to get pregnant.
 MANY WOMEN HAVE SPOTTING OR LIGHT BLEEDING, OR MAY FEEL SICK TO THEIR STOJE-ACH OURING THE FIRST 1-3 PACKS OF PILLS.
 If you feel sick to your stomach, do not stop taking the pill. The problem will usually go away. If it doesn't go away, check with your doctor or clinic.
 MISSING PILLS CAN ALSO CAUSE SPOTTING OR LIGHT BLEEDING, even when you make up these missed pills. On the days you take 2 pills to make up for missed pills, you could also feel a little sick to your stomach.

 IF YOU HAVE VOMITING OR DIARRHEA, for any reason, or IF YOU TAKE SOME MEDICINES, including some antiblotics, your pills may not work as well. Use a back-up method (such as

- including some antibiotics, your pills may not work as well. Use a back-up method (such as condoms, foam, or sponge) until you check with your doctor or clinic. IF YOU HAYE TROUBLE REMEMBERING TO TAKE THE PILL, talk to your doctor or clinic about how
- to make pull-boding easier or about using another method of birth control.

 IF YOU HAVE ANY QUESTIONS OR ARE UNSURE ABOUT THE INFORMATION IN THIS LEAFLET, call your doctor or clinic.

BEFORE YOU START TAKING YOUR PILLS:

- 1. DECIDE WHAT TIME OF DAY YOU WANT TO TAKE YOUR PILL. It is important to take it at about
- the same time every day.

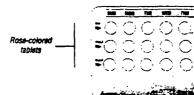
 2. LOOK AT YOUR PILL PACK TO SEE THAT IT HAS 21 PILLS: The 21-Bill sack has 21 "active" [rose-covored] pills (with hormones) to take for 3 weeks, followed by 1 week without pills.

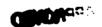
 3. ALSO FIND:

 - where on the pack to start taking the pills,
 in what order to take the pills (follow the arrows) and
 ithe week numbers as shown in the following example:

21 Pili Pack

Example Only:





BE SURE YOU HAVE READY AT ALL TIMES: ANOTHER KIND OF BIRTH CONTROL (such as condoms, foam, or sponge) to use as a back-up in case you miss pills. AN EXTRA, FULL PILL PACK.

1971 1971

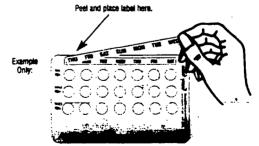
WHEN TO START THE EIRST PACK OF PILLS:
You have a choice of which day to start taking your first pack of pills. Decide with your doctor or clinic which is the best day for you. Pick a time of day which will be easy to remember.

DAY 1 STARTS

- 1. Prick the day label strip that starts with the first day of your period (this is the day you start bleeding or spotting, even if it is almost midright when the bleeding begins).

 Place this day label strip on the cycle tablet dispenser card over the area that has the days of the week (starting with Sunday) printed on the dispensing card.

Pick correct day label THU FRI SAT SUN MON TUE WED



Note: If the first day of your period is a Sunday, you can skip steps #1 and #2. Take the first "active" (rose-colored) pill of the first pack during the first 24 hours of your period. You will not need to use a back-up method of birth control, since you are starting the pill at the beginning of your period.

SUNDAY START:

1. Take the first "active" [rose-colored] pill of the first pack on the <u>Sunder after your period starts</u>, even if you are still bleeding. If your period begins on <u>Sundey</u>, start the pack that same day.
2. <u>Use another method of birth control</u> as a back-up method if you have sex anytime from the <u>Sunday</u> you start your first pack until the next <u>Sunday</u> (7 days). Condoms, foam, or the sponge are good back-up methods of birth control.

WHAT TO DO DURRING THE MONTH:

1. TAKE ONE PILL AT THE SAME TIME EVERY DAY UNTIL THE PACK IS EMPTY.

Do not skip pits even if you are spotting or bleeding between monthly periods or feel sick to your stomach (nauses).

Do not skip pits even if you do not have sex very often.

2. WHEN YOU FIRSTN A PACK ON SWITCH YOUR BRAND OF PILLS:

Wait 7 days to start the next pack. You will probably have your period during that week. Be sure that no more than 7 days pass between 21-day packs.

- WHAT TO DO IF YOU MIKES PILLS:

 1 you MISS 1 [rose-colored] "active" pilk:

 1. Take it as soon as you remember. Take the next pill at your requisir time. This means you take 2 pills in 1 day.

 2. You do not need to use a back-up birth control method if you have sex.

 If you MISS 2 [rose-colored] "active" pills in a row in WEER 1 ON WEER 2 of your pack:

 1. Take 2 pills on the day you remember and 2 pills the next day.

 2. Then take 1 pill a day until you finish the pack.

 3. You MAY BECOME PREGMANT if you have sex in the 7 days after you miss pills.

 You MIST use another birth control method (such as condoms, form, or sponge) as a back-up method for those 7 days:

 If you MISS 2 [rose-colored] "active" pills in a row in THE 2400 WEER:

 1. If yee are a Day 1 Starter:

 THROW OUT the rest of the pill pack and start a new pack that same day.

 If you are a Sanday Starter:

If you are a Sanday Starter

Keep taking 1 pill every day until Sunday.

On Sunday, THROW OUT the rest of the pack and start a new pack of pills that same day.

You may not have your period this month but this is expected. However, if you miss your period 2 months in a row, call your doctor or clinic because you might be pregnant.

3. You MAY BECOME PRESIDANT if you have sex in the 7 days after you miss pills. You MUST use another both control method (such as condorns, foam, or sponge) as a back-up method for those 7 days.

use another birth control method (such as condorns, foam, or sponge) as a back-up method for those 7 days.

If you alkes 3 OR MORET (rose-colored) "active" pills in a row (during the first 3 weeks):

1. If yee are a Day 1 Starter:

THROW OUT the rest of the pill pack and start a new pack that same day.

If yee are a Starter Starter:

Keep taking 1 pill every day until Sunday.

On Sunday, THROW OUT the rest of the pack and start a new pack of pills that same day.

You may not have your period this month but this is expected. However, if you miss your period 2 months in a row, call your doctor or clinic because you might be pregnant.

3. You MAY BECOME PREGNANT if you have sex in the 7 days, after you miss pills. You MUST use another birth control method (such as condense, foam, or sonone) as a back-up method.

use another birth control method (such as condoms, foam, or sponge) as a back-up method

FINALLY, IF YOU ARE STELL INCT SURE WHAT TO DO ABOUT THE PILLS YOU MAYE MISSED: USE A BACK-UP METHOD Anytime you have sex.

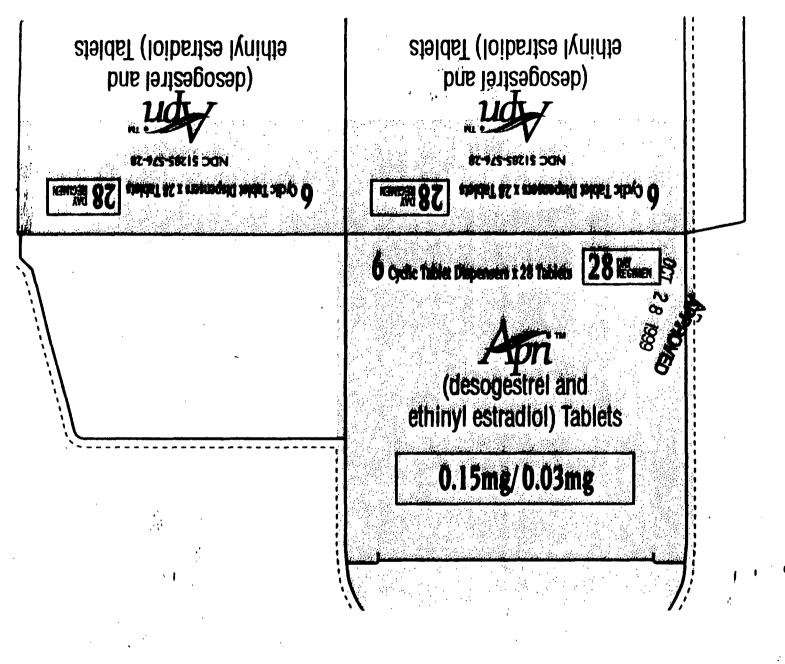
KEEP TAKING ONE [ROSE-COLORED] "ACTIVE" PILL EACH DAY until you can reach your doctor

DURAMED PHARMACEUTICALS, INC. CINCINNATI, 0HIO 45213 USA

19635.00

REV. 08/99

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0.15 mg/0.03 mg

IMPOSTANT:

This carees concains Detailed Patient Labeling and each Cyclic Tables
Dispenser contains the Brief Patient Labeling Both should be included with
each package disposed to the patient.

PHARMACIST:

Phone he sure to place one of the endand "Remation" stiders on the cover of each biliner tand peach at the time of disposing.



0.15 mg/0.03 mg

I} only

THIS PRODUCT (LIKE ALL GRAL! CONTRACEPTIVES) IS INTENDED TO PREVENT PREGNANCY. IT DOES NOT PROTECT AGAINST MIN MERCITON (ANDS AND OTHER SECURILLY TRANSMITTED DISEASES.

3.872" X 2.494" DIST.@100% PO# PP# DRAFT/PROOF Duramed - Apri Dispenser Card (21) C00486 08/99 JGF

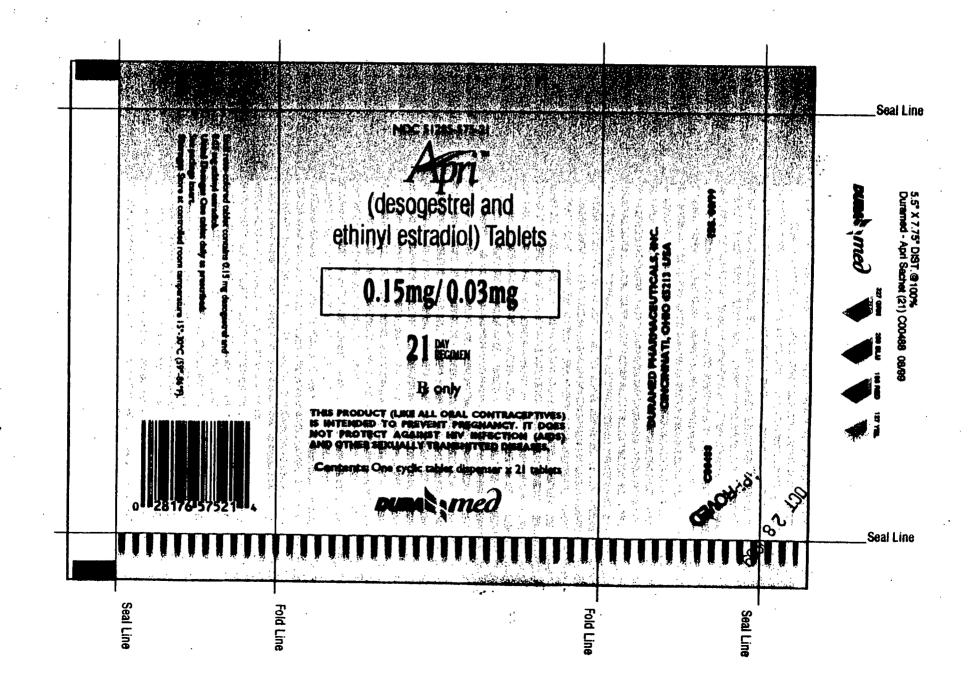
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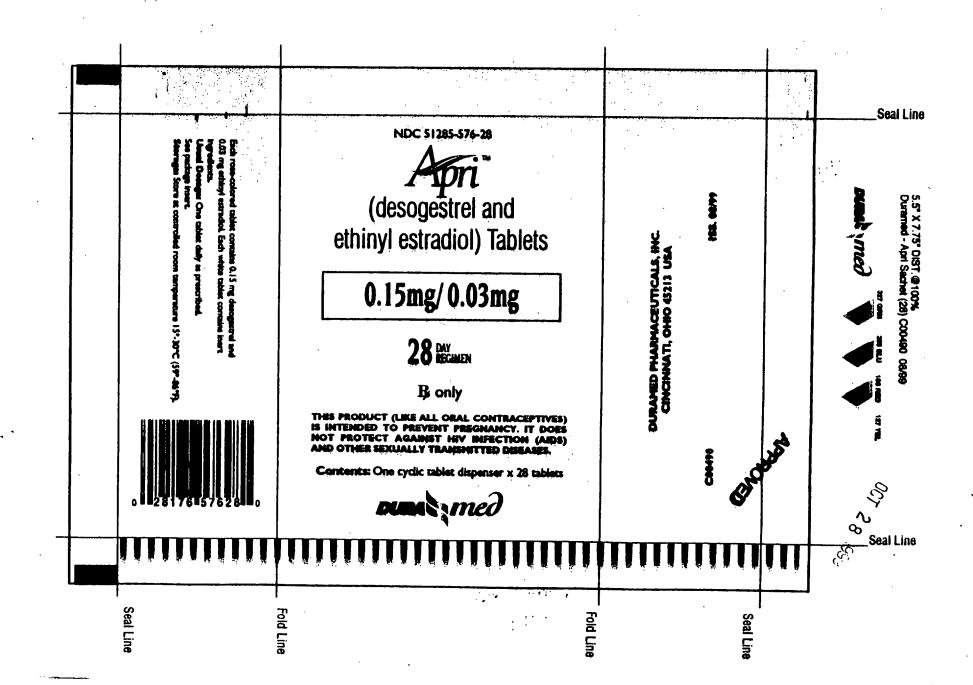
3.872" X 2.494" DIST.@100% PO# PP# DRAFT/PROOF Duramed - Apri Dispenser Card (28) C00489 08/99 JGF

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DETAILED PATIENT LABELING

(desogestrel and ethinyl estradiol) Tablets

28 and 21 Day Regimens

THIS PRODUCT (LIKE ALL GRAC CONTRACEPTIVES) IS INTENDED TO PREVENT PREGNANCY.

TO DOES NOT PROTECT AGAINST HIV INFECTION (AIDS) AND OTHER SEXUALLY (AIDS) AIDS (AIDS) AND OTHER SEXUALLY (AIDS) AIDS (AIDS) AND OTHER SEXUALLY (AIDS) AIDS (AIDS

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MM. by: DURAMED PHARMACEUTICALS, INC.
CINCINNATI OHIO 45213 USA

108351A

REV. 08/99

<u>PLEASE NOTE:</u> This labeling is revised from time to time as important new medical information becomes available. Therefore, please review this labeling carefully.

The following oral contraceptive products contain a combination of progestogen and estrogen, the two kinds of female hormones:

April (desogrative) and articles (estration) Tablet 26 Day Regimen Bilister Card
Each rose-colored tablet contains 0.15 mg desogrative and 0.03 mg ethinyl
estradiol. Each white tablet contains inert ingredients.

April (desognative) and ethinyl estradiol) Tablet 21 Day Regimes Bilister Card
Each rose-colored tablet contains 0.15 mg desognated and 0.03 mg ethinyl
estradiol.

INTRODUCTION

Any woman who considers using oral contraceptives (the birth control pill or the pill) should understand the benefits and risks of using this form of birth control. This patient labeling will give you much of the information you will need to make this decision and will also help you determine if you are at risk of developing any of the serious side effects of the pill. It will tell you how to use the pill properly so that it will be as effective as possible. However, this labeling is not a replacement for a careful discussion between you and your doctor or clinic. You should discuss the information provided in this labeling with him or her, both when you first start taking the pill and during your revisits. You should also follow your doctor's or clinic's advice with regard to regular check-ups while you are on the pill.

EFFECTIVENESS OF ORAL CONTRACEPTIVES

Oral contraceptives or "birth control pills" or "the pill" are used to prevent pregnancy and are more effective than other non-surgical methods of birth control. When they are taken cerrectly, the chance of becoming pregnant is less than 1% (1 pregnancy per 100 women per year of use) when used perfectly, with-unt missing any pills. Typical failure rates are actually 3% per year. The chance of becoming pregnant increases with each missed pill during a menstrual cycle.

In comparison, typical failure rates for other non-surgical methods of birth

Implant: <1%
Injection: <1%
UD: Uabragm with spermicides: 18%
Spermicides alone: 21%
Vaginal sponge: 18 to 36%

to the lungs. These risks are greater with desogestref-containing oral contreceptives, such as Apri (desogestref and ethinyl estradiol) tablets, than with other low-dose pills. Rarely, clots occur in the blood vessels of the eye and may cause biindriess. Souble vision, or impaired vision.

If you take oral contraceptives and need elective surgery, need to stay in bed for a prolonged illness or have recently delivered a baby, you may be at risk of developing blood clots. You should consult your doctor or clinic about stopping oral contraceptives three to four weeks before surgery and not taking oral contraceptives for two weeks after surgery or during bed rest. You should also not take oral contraceptives soon after delivery of a baby. It is advisable to walt for at least four weeks after delivery if you are not breast feeding or four weeks after a second trimester abortion. If you are breast feeding, you should walt until you have weaned your child before using the pill. (See also the section on Breast Feeding in General Precautions.)

The risk of circulatory disease in oral contraceptive users may be higher in users of high dose pills and may be greater with longer duration of oral contraceptive use. In addition, some of these increased risks may continue for a number of years after stopping oral contraceptives. The risk of abnormal blood clotting increases with age in both users and nonusers of oral contraceptives, but the increased risk from the oral contraceptive appears to be present at all ages. For women aged 20 to 44 ft is estimated that about 1 in 2,000 using oral contraceptives will be hospitalized each year because of abnormal clotting. Among nonusers in the same age group, about 1 in 20,000 would be hospitalized each year. For oral contraceptive users in general, it has been estimated that in women between the ages of 15 and 34 the risk of death due to a circulatory disorder is about 1 in 12,000 per year, whereas for nonusers the rate is about 1 in 50,000 per year. In the age group 35 to 44, the risk is estimated to be about 1 in 2,500 per year for oral contraceptive users and about 1 in 10,000 per year for nonusers.

2. Heart attacks and strokes

Oral contraceptives may increase the tendency to develop strokes (stoppage or rupture of blood vessels in the brain) and angina pectors and heart attacks (blockage of blood vessels in the heart). Any of these conditions can cause death or serious disability.

Smoking greatly increases the possibility of suffering heart attacks and strokes. Furthermore, smoking and the use of oral contraceptives greatly increase the chances of developing and dying of heart disease.

3. Gaifhiadder disease

Oral contraceptive users probably have a greater risk than nonusers of having gallbladder disease, although this risk may be related to pills containing high doses of estrogens.

4. Liver tumors

In rare cases, oral contracentives can cause benian but dangerous liver

over the age of 35, the estimated number of deaths exceeds those for other methods of birth control. If a woman is over the age of 40 and smokes, her estimated risk of death is four times higher (117/100,000 women) than the estimated risk associated with pregnancy (28/100,000 women) in that age group.

The suggestion that women over 40 who do not smoke should not take oral contraceptives is based on information from older, higher-dose pfils. An Advisory Committee of the FDA discussed this issue in 1989 and recommended that the benefits of low-dose oral contraceptive use by healthy, non-smoking women over 40 years of age may outweigh the possible risks.

WARNING SIERALS

If any of these adverse effects occur while you are taking oral contraceptives, call your doctor or clinic immediately:

- Sharp chest path, coughing of blood, or sudden shortness of breath (indicating a possible clot in the tung)
- . Pain in the calf (indicating a possible clot in the leg)
- Crushing chest pain or heaviness in the chest (indicating a possible heart attack)
- Sudden severe headache or vomiting, dizziness or fainting, disturbances of vision or speech, weakness, or numbress in an arm or leg (indicating a possible stroke)
- Sudden partial or complete loss of vision (indicating a possible clot in the ava)
- Breast lumps (indicating possible breast cancer or fibrocystic disease of the breast; ask your doctor or clinic to show you how to examine your breasts)
- Severe pain or tenderness in the stomach area (indicating a possibly ruptured liver tumor)
- Difficulty in sleeping! weakness, fack of energy, fatigue, or change in mood (possibly indicating severe degression)
- Jaundice or a yellowing of the skin or eyeballs, accompanied frequently by fever, fatigue, loss of appetite, dark colored urine, or light colored bowel movements (indicating possible liver problems)

SIDE EFFECTS OF ORAL CONTRACEPTIVES

1. Vaginal bleeding

Irregular vaginal bleeding or spotting may occur while you are taking the pills. Irregular bleeding may vary from slight staining between menstrual periods to breakthrough bleeding which is a flow much like a regular period. Irregular bleeding occurs most often during the first few months of oral contraceptive use, but may also occur after you have been taking the pill for some time. Such bleeding may be temporary and usually does not indicate any serious prob-

Cafvical Cab: Condom alone (male) Condom alone (female): Periodic abstinence: No methods:

WHO SHOULD NOT TAKE ORAL CONTRACEPTIVES

Clearette smoking increases the risk of serious cardinvescolar side effects from oral contraceptive use. This risk increases with one and with heavy smoking (15 or more elgarattes per day) and is quite marked in women over 35 years of age. Women who use oral contraceptives are strongly advised not to smoke.

Some women should not use the pill. For example, you should not take the pill if you are pregnant or think you may be pregnant. You should also not use the pitt if you have any of the following conditions:

- . A history of heart attack or stroke
- · Blood clots in the legs (thrombophlebitis), lungs (pulmonary embolism), or
- . A history of blood clots in the deep veins of your leas
- . Chest pain (angina pectoris)
- . Known or suspected breast cancer or cancer of the lining of the uterus. cervix or vagina
- Unexplained vaginal bleeding (until a diagnosis is reached by your doctor)
- . Yellowing of the whites of the eyes or of the skin (jaundice) during pregnancy or during previous use of the pill
- Liver turnor (benign or cancerous).
- Known or suspected pregnancy

Tell your doctor or clittic if you have ever had any of these conditions. Your docfor or clinic can recommend a safer method of birth control.

OTHER CONSIDERATIONS BEFORE TAXING ORAL CONTRACEPTIVES

Tell your doctor or clinic if you have or have had:

- . Breast nodules, fibrocystic disease of the breast, an abnormal breast x-ray or mammooram
- Diabetes
- · Elevated cholesterol or triglycerides
- High blood pressure
- . Migraine or other headaches or epilepsy
- Mental depression
- · Galibladder, heart or kidney disease
- · History of scarty or irregular menstrual periods

Women with any of these conditions should be checked often by their doctor or clinic if they choose to use oral contraceptives.

Also, be sure to inform your doctor or clinic if you smoke or are on any med-

RIBKS OF TAKING ORAL CONTRACEPTIVES

 Risk of developing blood clots
 Blood clots and blockage of blood vessels are one of the most serious side effects of taking oral contraceptives and can cause death or serious disability. In particular, a clot in one of the legs can cause thrombophlebitis and a clot that travels to the lungs can cause a sudden blocking of the vessel carrying blood tumors. These benion liver tumors can rupture and cause fatal internal bleeding. In addition, a possible but not definite association has been found with the pill and liver cancers in two studies, in which a few women who developed these very rare cancers were found to have used oral contraceptives for long periods. However, fiver cancers are rare.

5. Cancer of the repreductive organs and breasts

There is conflict among studies regarding breast cancer and oral contraceptive use. Some studies have reported an increase in the risk of developing breast cancer, particularly at a younger age. This increased risk appears to be related to duration of use. The majority of studies have found no overall increase in the risk of developing breast cancer.

Some studies have found an increase in the incidence of cancer of the cervix in women who use oral contraceptives. However, this finding may be related to factors other than the use of oral contracentives. There is insufficient evidence to rule out the possibility that pills may cause such cancers.

ESTIMATED RISK OF DEATH FROM A BIRTH CONTROL METHOD OR PREG-

All methods of birth control and pregnancy are associated with a risk of developing certain diseases which may lead to disability or death. An estimate of the number of deaths associated with different methods of birth control and pregnancy has been calculated and is shown in the following table.

AMMUAL MUMBER OF BIRTH-RELATED OR METHOD-RELATED DEATHS ASSOCIATED WITH CONTROL OF FERTILITY PER 100,000 NON-STERILE **WOMEN, BY FERTILITY CONTROL METHOD ACCORDING TO AGE**

Method of control and cutcome	15-19	20-24	25-29	30-34	35-39	40-44
No fertility control methods*	7.0	7.4	9.1	14.8	25.7	28.2
Oral contraceptives non-smoker**	0.3	0.5	0.9	1.9	13.8	31.6
Oral contraceptives smoker**	2.2	3.4	6.6	13.5	51.1	11,7.2
ruo**	8.0	8.0	1.0	1.0	1.4	1.4
Condom*	1.1	1.6	0.7	0.2	0.3	0.4
Diaphratm/spermicide*	1.9	1.2	1.2	1.3	2.2	2.8
Periodic abstinence*	2.5	1.6	1.6	1.7	2.9	3.6

- * Deaths are birth related
- ** Deaths are method related

In the preceding table, the risk of death from any birth control rilethod is less than the risk of childbirth, except for oral contraceptive users over the age of 35 who smoke and pill users over the age of 40 even if they do not smoke. It can be seen in the table that for women aged 15 to 39, the risk of death was highest with dregnancy (7-26 deaths per 100,000 women, depending on age). Among pill users who do not smoke, the risk of death was always lower than that associated with pregnancy for any age group, although over the age of 40, the risk increases to 32 deaths per 100,000 women, compared to 28 assoclated with pregnancy at that age. However, for pill users who smoke and are lems. It is important to continue taking your pills on schedule. If the bleeding occurs in more than one cycle or lasts for more than a few days, talk to your doctor or clinic.

2. Contact lenses

If you wear contact lenses and notice a change in vision or an inability to wear your lenses, contact your doctor or clinic.

3. Fluid retention

Oral contraceptives may cause edema (fluid retention) with swelling of the finders or ankles and may raise your blood pressure. If you experience fluid retention, contact your doctor or clinic.

A spotty darkening of the skin is possible, particularly of the face, which may persist.

5. Other side effects

Other side effects may include nausea and vomiting, change in appetite, headache, nervousness, depression, dizziness, loss of scalp hair, rash, and vacinal infections.

If any of these side effects bother you, call your doctor or clinic.

GENERAL PRECAUTIONS

1. Missed periods and use of oral contraceptives before or during early prégnancy

There may be times when you may not menstruate regularly after you have completed taking a cycle of pills. If you have taken your pills regularly and miss one menstrual period, continue taking your pills for the next cycle but be sure to inform your doctor or clinic before doing so. If you have not taken the pills dally as instructed and missed a menstrual period, you may be preparat. If you missed two consecutive menstrual periods, you may be pregnant. Check with your doctor or clinic immediately to determine whether you are pregnant. Do not continue to take oral contraceptives until you are sure you are not pregnant. but continue to use another method of contraception.

There is no conclusive evidence that oral contraceptive use is associated with an increase in birth defects, when taken inadvertently during early pregnancy. Previously, a few studies had reported that oral contraceptives might be associated with birth defects, but these findings have not been seen in more recent studies. Nevertheless, oral contraceptives or any other drugs should not be used during pregnancy unless clearly necessary and prescribed by your doctor or clinic. You should check with your doctor or clinic about risks to your unborn child of any medication taken during pregnancy.

2. While breast feeding

If you are breast feeding, consult your doctor or clinic before starting oral contraceptives. Some of the drug will be passed on to the child in the milk. A few adverse effects on the child have been reported, including yellowing of the skin (jaundice) and breast enlargement. In addition, oral contraceptives may decrease the amount and quality of your milk. If possible, do not use oral contraceptives while breast feeding. You should use another method of contraception since breast feeding provides only partial protection from becoming pregnant and this partial protection decreases significantly as you breast feed for longer periods of time. You should consider starting oral contraceptives only after you have weaned your child-completely.

If you are scheduled for any laboratory tests, tell your doctor or clinic you are taking birth control pills. Certain blood tests may be affected by birth control oills.

4. Drug interactions

Certain drugs may interact with birth control pills to make them less effective in preventing pregnancy or cause an increase in breakthrough bleeding. Such drugs include rifampin, drugs used for epilepsy such as barbiturates (for example, phenobarbital), anticonvulsants such as carbamazepine (Tegretol is one brand of this drug), phenytoin (Dilantin is one brand of this drug), phenylbutazone (Butazolidin is one brand), and possibly certain antibiotics. You may need to use additional contraception when you take drugs which can make oral contraceptives less effective.

5. Sexually transmitted diseases

This product (like all oral contraceptives) is intended to prevent pregnancy. It does not protect against transmission of HIV (AIDS) and other sexually transmitted diseases such as chiamydia, genital herpes, genital warts, gonorrhea, henatitis B. and syphilis.

HOW TO TAKE THE PILL IMPORTANT POINTS TO REMEMBER

BEFORE YOU START TAKING YOUR PILLS:

1. BE SURE TO READ THESE DIRECTIONS:

Before you start taking your pills.

Anytime you are not sure what to do.

2. THE RIGHT WAY TO TAKE THE PILL IS TO TAKE ONE PILL EVERY DAY AT THE SAME TIME

If you miss pills you could get pregnant. This includes starting the pack late. The more pills you miss, the more likely you are to get pregnant.

3. MANY WOMEN HAVE SPOTTING OR LIGHT BLEEDING, OR MAY FEEL SICK

TO THEIR STOMACH DURING THE FIRST 1-3 PACKS OF PILLS. If you feel sick to your stomach, do not stop taking the pill. The problem will

usually go away. If it doesn't go away, check with your doctor or clinic... 4. MISSING PILLS CAN ALSO CAUSE SPOTTING OR LIGHT BLEEDING, even when you make up these missed pills. On the days you take 2 pills to make

up for missed pills, you could also feel a little sick to your stomach 5. IF YOU HAVE VOMITING OR DIARRHEA, for any reason, or IF YOU TAKE SOME MEDICINES, including some antibiotics, your pills may not work as

Use a back-up method (such as condoms, foam, or sponge) until you check

6. IF YOU HAVE TROUBLE REMEMBERING TO TAKE THE PILL, talk to your doctor or clinic about how to make pill-taking easier or about using another method of birth control.

7. IF YOU HAVE ANY QUESTIONS OR ARE UNSURE ABOUT THE INFORMA-TION IN THIS LEAFLET, call your doctor or clinic.

BEFORE YOU START TAKING YOUR PRLAS

1. DECIDE WHAT TIME OF DAY YOU WANT TO TAKE YOUR PILL. It is important to take it at about the same time every day.

2. LOOK AT YOUR PILL PACK TO SEE IF IT HAS 21 OR 28 PILLS:

The 21-pill pack has 21 "active" [rose-colored] pills (with hormones) to take for 3 weeks, followed by 1 week without pills.

The 28-pill pack has 21 "active" [rose-colored] pills (with hormones) to take

for 3 weeks, followed by 1 week of reminder [white] pills (without hormones).

3. ALSO FIND:

1) where on the pack to start taking the pills,

2) in what order to take the pills (follow the arrows) and

3) the week numbers printed on the pack.

SUNDAY START:

1. Take the first "active" [rose-colored] pill of the first pack on the Sunday after . your period starts, even if you are still bleeding. If your period begins on Sunday, start the pack that same day.

2. Use another method of birth control as a back-up method if you have sex anytime from the Sunday you start your first pack until the next Sunday (7 days). Condems, foam, or the sponge are good back-up methods of birth control.

WHAT TO DO DURING THE MONTH:

1. TAKE ONE PILL AT THE SAME TIME EVERY DAY UNTIL THE PACK IS **FMPTY**

Do not skip pills even if you are spotting or bleeding between monthly periods or feel sick to your stomach (nausea).

Do not skip pills even if you do not have sex very often. 2. WHEN YOU FINISH A PACK OR SWITCH YOUR BRAND OF PILLS:

21 miles: Wait 7 days to start the next pack. You will probably have your period during that week. Be sure that no more than 7 days pass between 21-day packs.

28 pills: Start the next pack on the day after your last "reminder" pill. Do not wait any days between packs.
WHAT TO DO IF YOU MISS PILLS:

If you MISS 1 [rose-colored] "active" pill:

1. Take it as soon as you remember. Take the next pill at your regular time. This means you take 2 pills in 1 day.

You do not need to use a back-up birth control method if you have sex. If you MISS 2 [rose-colored] "active" pills in a row in WEEK 1 Off WEEK 2 of your pack:

1. Take 2 pills on the day you remember and 2 pills the next day. -

2. Then take 1 pill a day until you finish the pack.

3. You MAY BECOME PREGNANT if you have sex in the 7 days after you miss. pills. You MUST use another birth control method (such as condoms, foam, or sponge) as a back-up method for those 7 days.

If you MISS 2 [rose-colored], "active" pills in a row in THE 3RD WEEK:

. If you are a Day 1 Starter:

THROW OUT the rest of the pill pack and start a new pack that same day. If you are a Senday Starts

Keep taking 1 pill every day until Sunday.

On Sunday, THROW OUT the rest of the pack and start a new pack of pills that same day.

2. You may not have your period this month but this is expected. However, if you miss your period 2 months in a row, call your doctor or clinic because you might be pregnant.
3. You MAY BECOME PREGNANT If you have sex in the 7 days after you miss

You MUST use another birth control method (such as condoms, foam, or sponge) as a back-up method for those 7 days.

If you MISS 3 OR MORE [rose-colored] "active" pills in a row (during the first

3 weeks):

1. If you are a Day 1 Starter:

THROW OUT the rest of the pill pack and start a new pack that same day. If you are a Sunday Starte

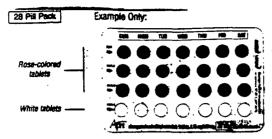
Keep taking 1 pill every day until Sunday.

On Sunday, THROW OUT the rest of the pack and start a new pack of pills that same day.

2. You may not have your period this month but this is expected. However, if you miss your period 2 months in a row, call your doctor or clinic because you might be pregnant.

3. You MAY BECOME PREGNANT if you have sex in the 7 days after you miss

You MUST use another birth control method (such as condoms, foam, or sponge) as a back-up method for those 7 days.



4. BE SURE YOU HAVE READY AT ALL TIMES: ANOTHER KIND OF BIRTH CONTROL (such as condoms, foam, or sponge) to use as a back-up in case you miss pills. AN EXTRA, FULL PILL PACK.

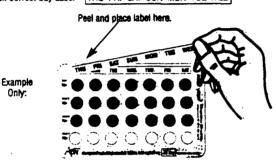
WHEN TO START THE FIRST PACK OF PILLS:

You have a choice of which day to start taking your first pack of pills. Decide with your doctor or clinic which is the best day for you. Pick a time of day which will be easy to remember.

DAY 1 START:

- 1. Pick the day label strip that starts with the first day of your period (this is the day you start bleeding or spotting, even if it is aimost midnight when the
- 2. Place this day label strip in the cycle tablet dispenser over the area that has the days of the week (starting with Sunday) printed on the blister card.

Pick Correct Day Label THU FRI SAT SUN MON TUE WED



Note: If the first day of your period is a Sunday, you can skip steps #1 and #2. 3. Take the first "active" [rose-colored] pill of the first pack during the first 24 hours of your period.

4. You will not need to use a back-up method of birth control, since you are starting the pill at the beginning of your period.

A REMINDER FOR THOSE ON 28 DAY PACKS:

If you forget any of the 7 (white) "reminder" pills in Week 4: THROW AWAY the pills you missed. Keep taking 1 pill each day until the pack is empty. You do not need a back-up method.

FINALLY, IF YOU ARE STILL NOT SURE WHAT TO DO ABOUT THE PILLS YOU HAVE MISSED:

Use a BACK-UP METHOD anytime you have sex.

KEEP TAKING ONE [rose-colored] "ACTIVE" PILL EACH DAY until you can reach your doctor or clinic.

PREGNANCY DUE TO PILL FAILURE

The incidence of pill failure resulting in pregnancy is approximately one percent (i.e., one pregnancy per 100 women per year) it taken every day as directed, but more typical failure rates are about 3%. If failure does occur, the risk to the fetus is minimal.

PREGNANCY AFTER STOPPING THE PILL

There may be some detay in becoming pregnant after you stop using oral contraceptives, especially if you had irregular menstrual cycles before you used oral contraceptives. It may be advisable to postpone conception until you begin menstruating regularly once you have stopped taking the pill and desire pregnancy.

There does not appear to be any increase in birth defects in newborn babies when pregnancy occurs soon after stopping the pill.

Serious ill effects have not been reported following ingestion of large doses of oral contraceptives by young children. Overdosage may cause nauses and withdrawal bleeding in females. In case of overdosage, contact your doctor, clinic or pharmacist.

OTHER INFORMATION

Your doctor or clinic will take a medical and family history before prescribing oral contraceptives and will examine you. The physical examination may be delayed to another time if you request it and your doctor or clinic believes that it is a good medical practice to postpone it. You should be reexamined at least once a year. Be sure to inform your doctor or clinic if there is a family history of any of the conditions listed previously in this leaflet. Be sure to keep all appointments with your doctor or clinic because this is a time to determine if there are early signs of side effects of oral contraceptive use.

Do not use the drug for any condition other than the one for which it was prescribed. This drug has been prescribed specifically for you; do not give it to others who may want birth control pills.

HEALTH BENEFITS FROM ORAL CONTRACEPTIVES

In addition to preventing pregnancy, use of combination oral contraceptives may provide certain benefits. They are:

- menstrual cycles may become more regular
- blood flow during menstruation may be lighter and less iron may be lost. Therefore, anemia due to iron deficiency is less likely to occur.

pain or other symptoms during menstruation may be encountered less frequently.

ectropic (tubal) pregnancy may occur less frequently.

noncancerous cysts or lumps in the breast may occur less frequently.

acute petvic inflammatory disease may occur less frequently.

oral contraceptive use may provide some production against developing two forms of cancer: cancer of the ovaries and cancer of the lining of the uterus.

If you want more information about birth control pills, ask your doctor, clinic or pharmacist. They have a more technical leaflet called the Professional Labeling, which you may wish to read. The Professional Labeling is also published in a book entitled *Physicians' Desk Returning*, available in many book stores and public libraries.

DURAMED PHARMACEUTICALS, INC. CINCHMATI, OHIO 45213 USA

REV. 88/99

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ethinvl estradiol) Tablets

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TING PRÓDUCT (LING ALL ORAL CONTRACEPTIVES) IS INTERIDED TO PREVENT PREGRADICY. IT DOES NOT PROTECT ACAINST HEY INFECTION (AIDS) AND OTHER SEXUALLY TRANSMITTED DISEASES.